193575

Victaulic
Company of America

Certified Mail No. P409-674-317
Return Receipt Requested

April 1, 1991

Mr. Lance R. Richman, P.G.
Remedial Project Manager
New Jersey Superfund Branch II
26 Federal Plaza, Room 13-100
New York, NY 10278

Victaulic Company of America - Apex Facility
Pohatcong Valley Superfund Site
Washington Township, Franklin Township
Warren County, New Jersey

Dear Mr. Richman:

In March of 1989, Victaulic responded to EPA's Request For Information regarding the above site by supplying written explanations and documents relating to the questions found in EPA's letter of February 7, 1989. Subsequently, on February 27, 1991, Victaulic received another Request For Information from the EPA seeking clarification and additional information to supplement our previous submission.

Attached is Victaulic's response letter along with the documents used to complete the response. Please note the questions asked are underlined with the response immediately following. As per our recent telephone conversation on March 7, 1991, the first question, which refers to Attachment 6, should refer to our previous response to question #7 supplied in March of 1989. Therefore, the answers supplied to the first question refer to our previous response to question #7.

P.O. BOX 31, EASTON, PENNSYLVANIA 18044-0031 • TEL. 215/252-6400 • FAX: 215/250-8817 or 215/252-9842

If there are any questions regarding the information submitted, feel free to contact me at 215-559-3476.

Very truly yours,

Bruce W. Host, Jr.
Environmental Engineer

BWH/jms

Attachments

cc: Ms. Deborah Mellot
Office of Regional Counsel
New Jersey Superfund Branch II
26 Federal Plaza, Room 13-100
New York, NY 10278

Certified Mail No. P409-674-318

March 19, 1991

Response to EPA's Request for Information

Victaulic Company of America

Apex Facility

1) **Please provide the quantities of chemicals purchased annually.**

The following is a listing of the chemicals purchased along with the quantities of each during the year 1988.

a)	Zinc Ammonium Chloride	27,950 pounds
b)	Hydroflouric Acid	13,050 pounds
c)	Ammonium Chloride	1,000 pounds
d)	Merpol HCS	400 pounds
e)	Zinc, Prime Western	790,208 pounds
f)	Zinc Brightener	3,711 pounds
g)	Zinc Anodes	4,950 pounds
h)	Potassium Permanganate	440 pounds
i)	Caustic Cleaner	3,600 pounds
j)	SC-109 Cleaner (Sodium Hydroxide)	5,200 pounds
k)	Sulfuric Acid	129,000 pounds
l)	Hydrochloric Acid	24,500 pounds
m)	Potassium Chloride	7,250 pounds
n)	Boric Acid	1,900 pounds
o)	Sodium Bisulphate	200 pounds
p)	Ekolasid 355 Make-Up	605 gallons
q)	Ekolasid 355 Maintenance	605 gallons
r)	280DD Cleaner	3,700 pounds
s)	Rodip CZ219	50 gallons
t)	Rodip ZN235 Make-Up	400 gallons
u)	Rodip ZN235 Maintenance	5 gallons
v)	Zinc Chloride	400 pounds
w)	Liquid Caustic Soda (Sodium Hydroxide)	275 gallons
x)	Hydrogen Peroxide	140 pounds
y)	Tower 464 Stripper (Sodium Hydroxide)	19,840 pounds
z)	Tower 392 Safety Solvent	40 gallons

Please provide copies of purchase orders which identify your vendor(s) and quantities of chemicals purchased.

See Appendix I for copies of purchase orders.

What quantity of chemical waste is generated annually?

This information can be found on the NJDEP Generator Annual Reports previously submitted on March 15, 1989 to the EPA, along with the more recent Annual Reports submitted to the NJDEP.

2(a) **Please describe the specific nature and quantities of wastes disposed of via the on-site lagoon.**

Various tanks used in the galvanizing or electroplating processes were pumped into the infiltration/percolation lagoon prior to December 1979. The following is a listing by department, of the tanks, their capacity, contents and an estimate as to how often they were changed.

Pickle Room:

Caustic Tank #1 - 1,683 gallons - caustic soluction - every 2 or 3 years

Caustic Tank #2 - 322 gallons - caustic solution - every 2 or 3 years

Caustic Tank #3 - 322 gallons - caustic soluction - every 2 or 3 years

Sulfuric Tank - 1,435 gallons - sulfuric acid solution - every 7 to 14 days

Hydroflouric Tank - 1,150 gallons - hydroflouric acid solution - every 12 months

Galvanizing Section:

Conveyor Line Caustic Tank - 1,370 gallons - caustic solution - every 20 to 30 months

Conveyor Line Acid Tank - 1,230 gallons - sulfuric acid solution - every 12 months

Plating Section:

Barrel Line Caustic Tank #1 - 200 gallons - caustic solution - every 3 weeks

Barrel Line Caustic Tank #2 - 200 gallons - caustic solution - every 3 weeks

Barrel Line Acid Tank - 200 gallons - hydrochloric acid solution - every 2 to 4 weeks

Still Line Caustic Tank - 725 gallons - caustic solution - every 30 days

Still Line Acid Tank - 360 gallons - hydrochloric acid solution - every 2 to 3 weeks

Still Line Chromate Tank - 350 gallons - chromate treatment solution - every 2 weeks
(May vary depending on use.)

In addition, rinse waters were also pumped to the infiltration/percolation lagoon. There are no records on the quantity of rinse water transferred.

(b) **Have well monitoring programs or other studies been conducted to determine the extent of any on-site contamination?**

Yes, well monitoring programs have and are being conducted.

Have monitoring wells required by your NJPDES permit been installed?

Yes, the monitoring wells required by our NJPDES permit have been installed.

Please provide all available information and data pertaining to any well monitoring program.

The Apex facility was issued a NJPDES Permit (Permit Number NJ0099791) in February of 1988. A copy of the Permit appears in Appendix II. The monitoring requirements of the permit have been followed with the installation of the groundwater monitoring wells and the subsequent quarterly monitoring. All quarterly Discharge Monitoring Reports, which contain the analytical results or data, are submitted to the State of New Jersey at the following address:

Bureau of Information Systems
Division of Water Resources
New Jersey Department of Environmental Protection
CN-029
Trenton, New Jersey 08625
Attention: Monitoring Well Reports

Also, this analytical data is shared between the state and the EPA and should be available at the following location:

United States Environmental Protection Agency
Region II
Permit Administration Branch
26 Federal Plaza
New York, New York 10278

3) **Please clarify Modern Transportation's last date of use with regards to the disposal of waste materials.**

The New Jersey Generator's Annual Report for the year 1981, a copy is found in Appendix III, clearly shows on Page 1 that Modern Transportation was last used on August 12, 1981. After this date, the Apex facility switched to Waste Conversions for the next shipment of waste on September 23, 1981. This is shown on Page 2 of the annual report. Copies of the manifests detailing this change are also found in Appendix III. Therefore, the response letter of March 15, 1989, was in error in stating that Waste Conversions was used since April of 1981.

BWH/jms

CERTIFICATION OF ANSWERS TO REQUEST FOR INFORMATION

State of Pennsylvania

County of Northampton

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document (response to EPA Request for Information) and all documents submitted herewith, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete, and that all documents submitted herewith are complete and authentic unless otherwise indicated. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

David S. Bugby

NAME (print or type)

Vice President - Manufacturing

TITLE (print or type)

David S Bugby

SIGNATURE

Sworn to before me this

28 day of March, 1991

Carl Selmasky

Notary Public

NOTARIAL SEAL
CARL SELMASSKA, Notary Public
Easton, Northampton County
My Commission Expires Dec. 31, 1994

APPENDIX I

PURCHASE ORDER NO. A1# 4001

Victaulic
Company of America

X= Confirming Purchase Order - DO NOT DUPLICATE

SHIP TO
VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
PHONE (201) 859-0085 OR (215) 253-8440

SHIP VIA ► 1 = Air 2 = Motor Freight 3 = UPS 4 = Pick-Up 5 = Other — SEE BELOW

DATE ISSUED	TERMS	SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO.	MARK FOR
2-18-8X	N 30	Overnight 1-800-254-7324	01-06-000-1404-100	

F.O.B.	CONFIRMING TO
T.P.	

TO: Zaclon Inc.
2981 Independence Rd ~~P.O. Box~~
Cleveland Ohio 44115

• PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.

MAIL INVOICES TO:
VICTAULIC COMPANY OF AMERICA
BOX 31 • EASTON, PA • 18042

INVOICE TO

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT	UNIT PRICE	TOTAL
	20,000	lbs	Zaclon F Zinc	Stock	@ .495 lb	@ 9900.00

Teptile current price .595 lb

SALES TAX ☐ APPLICABLE ☒ NOT APPLICABLE

ITEM NO.	REMARKS
	8-26-8 20,250±

PURCHASING FILE COPY

Victaulic
Company of America

X = Confirming Purchase Order - DO NOT DUPLICATE

SHIP TO
VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
Phone (201) 859-0085

SHIP VIA ► 1 = Air 2 = Motor Freight 3= UPS 4 = Pick-Up 5 = Other-SEE BELOW

DATE ISSUED	TERMS	X	SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO.	MARK FOR
4/13/88				01-06-000-1401-100	

F.O.B.

CONFIRMING TO: [illegible] (908) 523-9402

TO: Textile Chemical
Roding Rd [illegible]

- PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.
- MAIL INVOICES TO: VICTAULIC COMPANY OF AMERICA BOX 31 • EASTON, PA • 18042

INVOICE TO

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT	UNIT PRICE	TOTAL
	4	Ea	Hydrofluoric Acid 450 lb Drum	4/15/88	59.25	

2 drums rec'd

SALES TAX ☐ APPLICABLE ☑ NOT APPLICABLE

ITEM NO.	REMARKS
	4 10-8 - 4

PURCHASING FILE COPY

Victaulic
Company of America

X = Confirming Purchase Order - DO NOT DUPLICATE

SHIP TO

VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
Phone (201) 859-0085

SHIP VIA ► 1 = Air 2 = Motor Freight 3= UPS 4 = Pick-Up 5 = Other-SEE BELOW

DATE ISSUED	TERMS	X	SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO.	MARK FOR
7/11/88				01-06-000-1404-100	

F.O.B.	CONFIRMING TO
	Dave Hess 900-523-8402

TO:

Textile Chemical
Pottsville Pike + Hollis Lane
Reading, Pa. 19605

- PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.
- MAIL INVOICES TO: VICTAULIC COMPANY OF AMERICA BOX 31 • EASTON, PA • 18042

INVOICE TO

Item No	QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT	UNIT PRICE	TOTAL
	10	drum	Hydrofluoric Acid 450# drum	by 7/15	592.50 cwt	
	20	bags	Ammonium Chloride 50# bags	↓	21.00 cwt	

RE# 12-7649

SALES TAX ☐ APPLICABLE ☑ NOT APPLICABLE

ITEM NO.	REMARKS
1+2	7/15/88 ALL COMPLETE

PURCHASING FILE COPY

Victaulic
Company of America

X Confirming Purchase Order - DO NOT DUPLICATE P.O. #

SHIP TO

VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
Phone (201) 859-0085

SHIP VIA ► 1 = Air 2 = Motor Freight 3= UPS 4 = Pick-Up 5 = Other-SEE BELOW

E IS	SUED	TERMS			SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO.	MARK FOR
	1/ :-/88	Net	x	5	Your Truck	01-	/R. Eroh

B.	CONFIRMING TO
	Ed 11/28

TO:

Textile Chemical
P.O. Box 13788
Reading, PA 19612-3788

• PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.

• MAIL INVOICES TO:
VICTAULIC COMPANY OF AMERICA
BOX 31 • EASTON, PA • 18042

INVOICE TO

QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT
3,600	lbs	Hydrofluoric acid 450#/drum	11/30/88

SALES TAX ☐ APPLICABLE ☐ NOT APPLICABLE

EM	DATE	QUANTITY REC'D	BALANCE DUE
1	11/29/88	All	0

ITEM	DATE	QUANTITY REC'D	BALANCE DUE

RECEIVING COPY / ORDER CONTROL

Victaulic
Company of America

X = Confirming Purchase Order - DO NOT DUPLICATE

SHIP TO
VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
PHONE (201) 859-0085 OR (215) 253-8440

SHIP VIA ► 1 = Air 2 = Motor Freight 3 = UPS 4 = Pick Up 5 = Other SEE BELOW

DATE ISSUED	TERMS	X	SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO.	MARK FOR
12/21/87				01-06-000-1401-100	

F.O.B.	CONFIRMING TO
	LINDA 800-523-8402

TO: TEXTILE CHEMICAL
POTTSVILLE PIKE + HUNTER LANE
READING, PA. 19605

- PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.

MAIL INVOICES TO
VICTAULIC COMPANY OF AMERICA
BOX 31 - EASTON, PA 18042
INVOICE TO

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT	UNIT PRICE	TOTAL
	30	bags	Zaclon-F 100# Bags	12/29	54.50	
	26		" " "			
	56					

duplicated order - will keep. Resident would have been open to end of month

SALES TAX ☐ APPLICABLE ☑ NOT APPLICABLE

ITEM NO.	REMARKS	
	1-12-88	30
	1-13-88	26
		56

PURCHASING FILE COPY

Victaulic
Company of America

X = Confirming Purchase Order - DO NOT DUPLICATE

SHIP TO
VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
PHONE (201) 859-0085 OR (215) 253-8440

SHIP VIA > 1 = Air 2 = Motor Freight 3 = UPS 4 = Pick-Up 5 = Other SEE BELOW >

DATE ISSUED	TERMS	X	SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO.	MARK FOR
2/3/98				01-06-000-1404-100	

F.O.B.	CONFIRMING TO:
	Janet

TO: Textile Chemical
Pottsville Pike - Hulliza Lane
Reading, Pa. 19605

- PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.

MAIL INVOICES TO
VICTAULIC COMPANY OF AMERICA
BOX 31 EASTON, PA 18042
INVOICE TO

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT	UNIT PRICE	TOTAL
	4 ✓	EA	Hydrofluoric Acid #450 Drum	2/5 ↓	56.25	
	20 ✓	EA	100# Zaclon-F		54.50	
	21 Rec'd OK					

SALES TAX ☐ APPLICABLE ☑ NOT APPLICABLE

ITEM NO.	REMARKS
	2-4-8 4
	21

PURCHASING FILE COPY

Victaulic
Company of America

X= Confirming Purchase Order - DO NOT DUPLICATE

SHIP TO
VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
PHONE (201) 859-0085 OR (215) 253-8440

SHIP VIA ▶ 1 = Air, 2 = Motor Freight, 3 = UPS, 4 = Pick Up, 5 = Other — SEE BELOW

DATE ISSUED	TERMS		SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO.	MARK FOR
2/8/88		X			

F.O.B.	CONFIRMING TO
Deepwater NJ	Janet Nolan (800) 523-7412

TO: Textile Chemical
Reading, PA 19607

01-06-000-1409-100

- PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.
- MAIL INVOICES TO: VICTAULIC COMPANY OF AMERICA, BOX 31 • EASTON, PA 18042

INVOICE TO

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT	UNIT PRICE	TOTAL
	1	EA	400# Diam Merpol HCS	2/12	1.02#	

SALES TAX ☐ APPLICABLE ☐ NOT APPLICABLE

ITEM NO.	REMARKS
	2/12-8 1 —

PURCHASING FILE COPY

Victaulic
Company of America

VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
Phone (201) 859-0085

SHIP VIA 1 = Air 2 = Motor Freight 3= UPS 4 = Pick-Up 5 = Other-SEE BELOW

DATE ISSUED	TERMS			SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO.	MARK FOR
9/16/88	Net	x	5	Your Truck	01-06-000-1404-100/R. Eroh	

F.O.B.	CONFIRMING TO
Shipping Point	Dave

TO:

Textile Chemical Co.
P.O. Box 13788
Reading, PA 19612-3788

• PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.

• MAIL INVOICES TO:
VICTAULIC COMPANY OF AMERICA
BOX 31 • EASTON, PA • 18042
INVOICE TO

NO.	QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT
-1	3	dr	Hydrofluric acid 70% (450# dr) #1404	9/19/88

RR # 12-7836

SALES TAX ☐ APPLICABLE ☐ NOT APPLICABLE

ITEM	DATE	QUANTITY REC'D	BALANCE DUE	ITEM	DATE	QUANTITY REC'D	BALANCE DUE
1	9/16/88	3	COMPLETE				

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Victaulic
Company of America

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SHIP TO

VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
Phone (201) 859-0085

SHIP VIA ► 1 = Air 2 = Motor Freight 3= UPS 4 = Pick-Up 5 = Other-SEE BELOW

DATE ISSUED	TERMS			SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO.	MARK FOR
12/8/88	Net	x	5	Best way	01-06-000-1404-100/R. Eroh	

F.O.B.	CONFIRMING TO
New Village, NJ	Ed Schutz

TO:

Zinc Corp. of America
350 Frankford Rd.
Monaca, PA 15061

- PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.
- MAIL INVOICES TO: VICTAULIC COMPANY OF AMERICA BOX 31 • EASTON, PA. • 18042

INVOICE TO

Item No.	QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT
1	88,000	lbs	Zinc - Prime Western 55# slabs	
			1 T/L	12/14/88
			1 T/L	12/28/88

12/14/88 R.R.# 12-9106
12/29 RR # 12-3148

SALES TAX ☐ APPLICABLE ☐ NOT APPLICABLE

ITEM	DATE	QUANTITY REC'D	BALANCE DUE
1	12/14/88	46,664 #	APPROX 44,000
1	12/29/88	44,976 #	ORDER COMPLETE

ITEM	DATE	QUANTITY REC'D	BALANCE DUE

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Victaulic
Company of America

Confirming Purchase Order # DO NOT DUPLICATE

SHIP TO

VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
Phone (201) 859-0085

SHIP VIA ► 1 = Air 2 = Motor Freight 3= UPS 4 = Pick-Up 5 = Other-SEE BELOW

E ISSUED	TERMS			SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO.	MARK FOR
1/9/88	Net	x	5	Best way	01-	/R. Eroh

B.	CONFIRMING TO
ew Village, NJ	Ellen

TO:

Zinc Corp. of America
350 Frankford Rd.
Monaca, PA 15061

• PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.

• MAIL INVOICES TO:
VICTAULIC COMPANY OF AMERICA
BOX 31 • EASTON, PA • 18042

INVOICE TO

QUANTITY	UNIT	DESCRIPTION		DATE REQUIRED IN PLANT
88,000	lbs	Zinc - Prime Western 55# slabs	1 T/L	11/18/88
			1 T/L	11/30/88

SALES TAX ☐ APPLICABLE ☐ NOT APPLICABLE

ITEM	DATE	QUANTITY REC'D	BALANCE DUE
1	11/18/88	44,600	43,400 44,000
1	11/30/88	43,742	-0-

ITEM	DATE	QUANTITY REC'D	BALANCE DUE

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Victaulic
Company of America

CONFIRMING PURCHASE ORDER - DO NOT DUPLICATE

SHIP TO

VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
Phone (201) 859-0085

SHIP VIA ► 1 = Air 2 = Motor Freight 3= UPS 4 = Pick-Up 5 = Other-SEE BELOW

TE ISSUED	TERMS		SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO.	MARK FOR
0/21/88	Net	x 5	5 Best way	01-	/R. Eroh

O.B.	CONFIRMING TO
KI New Village, NJ	Ellen

TO:

Zinc Corp. of America
350 Frankford Rd.
Monaca, PA 15061

• PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.

• MAIL INVOICES TO:
VICTAULIC COMPANY OF AMERICA
BOX 31 • EASTON, PA • 18042

INVOICE TO

QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT
88,000	lbs	Zinc prime western 55# blabs	
		1 T/L	10/19/88
		1 T/L	10/31/88

SALES TAX ☐ APPLICABLE ☐ NOT APPLICABLE

ITEM	DATE	QUANTITY REC'D	BALANCE DUE
	10/19/88	45196#	1 LOAD
	11/1/88	45642#	ORDER COMPLETE

ITEM	DATE	QUANTITY REC'D	BALANCE DUE

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Victaulic
Company of America

X = Confirming Purchase Order - DO NOT DUPLICATE

SHIP TO

VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
Phone (201) 859-0085

SHIP VIA ► 1 = Air 2 = Motor Freight 3= UPS 4 = Pick-Up 5 = Other-SEE BELOW

TE ISSUED	TERMS		SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO.	MARK FOR
6/24/88		X			
LB.	CONFIRMING TO: DAN SCANLON				

TO: Zinc Corporation of America
Monaca, Pa.

01-06-000-1404-100

• PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.

• MAIL INVOICES TO:
VICTAULIC COMPANY OF AMERICA
BOX 31 • EASTON, PA • 18042

INVOICE TO

QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT
44000	LBS.	Prime Western Zinc in slab-form	7/11/88
44000	LBS.	Prime Western Zinc - Slab-Form	7/25/88

SALES TAX ☐ APPLICABLE ☐ NOT APPLICABLE

ITEM	DATE	QUANTITY REC'D	BALANCE DUE
1	7/12/88	41 330#	1 LOAD
2	7/26/88	44,604#	- 0 -

ITEM	DATE	QUANTITY REC'D	BALANCE DUE
RR 12-7642			

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Victaulic
Company of America

Confirming Purchase Order - DO NOT DUPLICATE

SHIP TO

VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
Phone (201) 859-0085

SHIP VIA ► 1 = Air 2 = Motor Freight 3= UPS 4 = Pick-Up 5 = Other-SEE BELOW

ATE ISSUED	TERMS			SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO.	MARK FOR
9/9/88	Net	x	5	Best way	01-	/R. Eroh

O.B.	CONFIRMING TO
SHI New Village, NJ	Ellen

01-06-000-1404-100

TO:

Zinc Corp. of America
350 Frankford Rd.
Monaca, PA 15061

• PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.

• MAIL INVOICES TO:
VICTAULIC COMPANY OF AMERICA
BOX 31 • EASTON, PA • 18042

INVOICE TO

M ID	QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT
1	88,000	lbs	Zinc - prime western 55# slabs	
			1 T/L	9/13/88
			1 T/L	9/27/88
2	1711	LBS	BRIGHTENER BAR	9/27/88

SALES TAX ☐ APPLICABLE ☐ NOT APPLICABLE

ITEM	DATE	QUANTITY REC'D	BALANCE DUE
	9/13/88	44774#	44000#
	9/27/88	1711#	
	9/27/88	42548#	Complete

ITEM	DATE	QUANTITY REC'D	BALANCE DUE
			-

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Victaulic
Company of America

SHIP TO

VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
Phone (201) 859-0085

SHIP VIA ► 1 = Air 2 = Motor Freight 3= UPS 4 = Pick-Up 5 = Other-SEE BELOW

TE ISSUED	TERMS			SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO.	MARK FOR
/15/88	Net	x	5	Best way	01-	/J. Cuvo

O.B.	CONFIRMING TO
ew Village, NJ	Ellen

TO:

Zinc Corp. of America
300 Frankfort Rd.
Monaca, PA 15061
ATTN: Ellen

01-06-000-1404-100

• PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.

• MAIL INVOICES TO:
VICTAULIC COMPANY OF AMERICA
BOX 31 • EASTON, PA • 18042

INVOICE TO

	QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT
	44,000	lbs	Zinc - Prime Western 55# slabs	8/18/88

RR 12-7747

SALES TAX ☐ APPLICABLE ☐ NOT APPLICABLE

ITEM	DATE	QUANTITY REC'D	BALANCE DUE
	8/17/88	45,400	-0-

ITEM	DATE	QUANTITY REC'D	BALANCE DUE

RECEIVING COPY : ORDER CONTROL

Order - DO NOT DUPLICATE

Company of America

IC COMPANY OF AMERICA
CILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
Phone (201) 859-0085

SHIP VIA ►1 = Air 2 = Motor Freight 3= UPS 4 = Pick-Up 5 = Other-SEE BELOW

DATE ISSUED	TERMS		SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO.	MARK FOR
5-13-	N 30	X			

F.O.B.	CONFIRMING TO
Edison	Ellen 1-800-962-7500

TO: Zinc Corporation of America
Monaca Pa

01-CA-[illegible]-100

- PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.

- MAIL INVOICES TO:
VICTAULIC COMPANY OF AMERICA
BOX 31 • EASTON, PA • 18042

INVOICE TO

Item No	QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT	UNIT PRICE	TOTAL
	1		Lead fume treaten Zinc in Calcium	June 9,58	.57/lb	
	2000	LBS	BRIGHTENER	JUNE 9,1958	.71 lb	
	1		Lead fume treaten Zinc in Calcium	June 23,58	.57/lb	

R-R # 12-7561
RR # 12-7595 6/22/68

SALES TAX ☐ APPLICABLE ☑ NOT APPLICABLE

ITEM NO.	REMARKS
6/9/58	1ST LOAD 41,846# / LOAD
6/9/58	BRIGHTENER —0—
6/22/58	41178# —0—

PURCHASING FILE COPY

Victaulic
Company of America

X = Confirming Purchase Order - DO NOT DUPLICATE

SHIP TO
VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
Phone (201) 859-0085

SHIP VIA ► 1 = Air 2 = Motor Freight 3= UPS 4 = Pick-Up 5 = Other-SEE BELOW

DATE ISSUED	TERMS	X	SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO.	MARK FOR
4-[illegible]				01-06-CON-140V-00	

F.O.B.

CONFIRMING TO Ellen

TO: Zinc Corporation of America
Menasco Dr

- PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.
- MAIL INVOICES TO: VICTAULIC COMPANY OF AMERICA BOX 31 • EASTON, PA • 18042 — INVOICE TO

Item No	QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT	UNIT PRICE	TOTAL
	2		Loctite Primer-Medium Zinc	5-5-88	$.56 lb	
				5-26-88		
			Changed from 12 to 5th in 7th letter			

SALES TAX ☐ APPLICABLE ☐ NOT APPLICABLE

ITEM NO.	REMARKS
	5-9-8 41,792
	5-26-8 40,106

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SHIP TO
VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
PHONE (201) 859-0085 OR (215) 253-8440

SHIP VIA: 1 = Air 2 = Motor Freight 3 = UPS 4 = Pick Up 5 = Other - SEE BELOW

DATE ISSUED	TERMS	SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNTING	MARK FOR
3-21-9	30 days Net		01-06-000-1401-106	

F.O.B.	CONFIRMING TO
Apex	Don Woodson

TO: Zinc Corporation of America
Monaca, Pa

- PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.

MAIL INVOICES TO
VICTAULIC COMPANY OF AMERICA
BOX 31 • EASTON, PA 18042
INVOICE TO

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT	UNIT PRICE	TOTAL
	~~44,000~~ 45,492 lbs		prime Western Zinc in small slabs	4-5-8	≤ 49 lb	

SALES TAX ☐ APPLICABLE ☒ NOT APPLICABLE

ITEM NO.	REMARKS
4-5-8	~~44,000 lbs~~ 45,492 lbs

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SHIP TO
VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
PHONE (201) 859-0085 OR (215) 253-8440

SHIP VIA ► 1 = Air 2 = Motor Freight 3 = UPS 4 = Pick Up 5 = Other — SEE BELOW ◄

DATE ISSUED	TERMS	SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO.	MARK FOR
9-2-88	N 30		01-01-000-1004-100	

F.O.B.	CONFIRMING TO
	E Hansen 412-793-2231

TO: Zinc Corporation of America
Monaca PA

- PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.

MAIL INVOICES TO:
VICTAULIC COMPANY OF AMERICA
BOX 31 - EASTON, PA 18042

INVOICE TO

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT	UNIT PRICE	TOTAL
	2		Loads prime Western Zinc		$.455/lb	
	1		in slab form.		delvd	
			1 load 2-2-88			
			1 load 2-16-88			

SALES TAX ☐ APPLICABLE ☒ NOT APPLICABLE

ITEM NO.	REMARKS		
	2-3-8	45,832#	~~45,000~~
	2-17-8	44486	
		40,318	

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VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
PHONE (201) 859-0085 OR (215) 253-8440

SHIP VIA ► 1 = Air 2 = Motor Freight 3 = UPS 4 = Pick Up 5 = Other SEE BELOW

DATE ISSUED	TERMS		SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO.	MARK FOR
4-14-8		X 4	our Truck	01-06-000-1404-200	
F.O.B.	CONFIRMING TO				
Their Plant	Verbal				

TO: Purity Zinc Company
Easton Pa 18042

• PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.

MAIL INVOICES TO:
VICTAULIC COMPANY OF AMERICA
P.O. BOX 31 • EASTON, PA. 18042
INVOICE TO

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT	UNIT PRICE	TOTAL
	2475	Lbs	(275 lb drums) Zinc Anodes (9 drums per skid)		$ .6750	

B/L # 1400

SALES TAX ☐ APPLICABLE ☒ NOT APPLICABLE

ITEM NO.	REMARKS
	4-19-8 2475#

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Company of America

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SHIP TO
VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
Phone (201) 859-0085

SHIP VIA ► 1 = Air 2 = Motor Freight 3= UPS 4 = Pick-Up 5 = Other-SEE BELOW

DATE ISSUED	TERMS		SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO.	MARK FOR
10/4/88		X	VCOA-TRUCK	01-06-000-1404-100	

F.O.B.

CONFIRMING TO: LISA

TO: PURITY ZINC METAL
EASTON, PA. 18042

- PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.
- MAIL INVOICES TO: VICTAULIC COMPANY OF AMERICA BOX 31 • EASTON, PA • 18042 — INVOICE TO

Item No	QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT	UNIT PRICE	TOTAL
	2475#	LBS.	ZINC PLATING ANODE BALLS		.175#	

12-7898

SALES TAX ☐ APPLICABLE ☐ NOT APPLICABLE

ITEM NO.	REMARKS
	10/7/88 2475# ORDER COMPLETE Ronald S Cook

PURCHASING FILE COPY

Victaulic
Company of America

X = Confirming Purchase Order - DO NOT DUPLICATE

SHIP TO

VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
Phone (201) 859-0085

SHIP VIA ► 1 = Air 2 = Motor Freight 3= UPS 4 = Pick-Up 5 = Other-SEE BELOW

DATE ISSUED	TERMS		SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO.	MARK FOR
4-12-88		Y		#5 * 01-06-254-6204-00 # 1-2-3-4 01-06-000-1404-200	
F.O.B.	CONFIRMING TO				
	JOHN K.				

TO: W.H. REYNOLDS Co.

- PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.
- MAIL INVOICES TO: VICTAULIC COMPANY OF AMERICA BOX 31 - EASTON, PA - 18042

INVOICE TO

Item No	QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT	UNIT PRICE	TOTAL
1	110 ✓	LBS.	POTASSIUM PERMANGANATE		1.71 LB.	188.53
2	55 ✓	GAL	EKOLASID 355 MAKEUP		13.15 GAL	
3	55 ✓	GAL.	EKOLASID 355 MAINTENANCE		15.08 GAL.	
4	900 ✓	LBS.	280 DD CLEANER		.675 LB.	
5	1	GAL.	SN HCL		39.40 GAL.	

SALES TAX ☐ APPLICABLE ☐ NOT APPLICABLE

ITEM NO.	REMARKS	
	4-14-8 110	Ronald Groth
	" 55	
	" 55	
✓	" 900	
	4-27-8 1 Gal	~~1 GAL~~
✓		

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Company of America

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SHIP TO
VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
PHONE (201) 859-0085 OR (215) 253-8440

SHIP VIA ► 1 = Air 2 = Motor Freight 3 = UPS 4 = Pick-Up 5 = Other SEE BELOW

DATE ISSUED	TERMS	SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO	MARK FOR
1-14-88			01-06-008-1404-700	

F.O.B.

CONFIRMING TO: JOHN N.

TO: W.A. REYNOLDS
PHILA. PA.

- PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.
- MAIL INVOICES TO: VICTAULIC COMPANY OF AMERICA BOX 31 - EASTON, PA - 18042

INVOICE TO

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT	UNIT PRICE	TOTAL
	5	DRUMS	280 D.D. CAUSTIC (400 lbs)		.675#	
	1	"	355 MAINT.		16.70 GAL	
	1	"	355 MAKEUP		14.65 GAL	
	25	GAL	RODIP CZ219			
	55	GAL	RODIP ZN235 MAKEUP		5.506AL	
	5	GAL	RODIP ZN235 MAINT		5.256AL	

SALES TAX ☐ APPLICABLE ☐ NOT APPLICABLE

ITEM NO.	REMARKS
	1-22-88 ALL -0-

PURCHASING FILE COPY

PURCHASE ORDER NO. A16 4022

Victaulic Company of America

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SHIP TO
VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
PHONE (201) 859-0085 OR (215) 253-8440

SHIP VIA ► 1 = Air 2 = Motor Freight 3 = UPS 4 = Pick Up 5 = Other SEE BELOW ◄

DATE ISSUED	TERMS	X	SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO.	MARK FOR
3-19-89				01-06-000-1404-200	

F.O.B.	CONFIRMING TO
	Barbara

TO: W. A. Reynolds
2522-A Pearl Buck Road
Bristol, Pa 19007

- PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.
- MAIL INVOICES TO: VICTAULIC COMPANY OF AMERICA BOX 31 • EASTON, PA • 18042 — INVOICE TO

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT	UNIT PRICE	TOTAL
	~~35~~ 60	gal	ZN235 make-up		5.50/gal	
	~~35~~ 25	gal	Rodine CZ-219		7.45/gal	
	3	drms	55 gallon drums Ekosol #355 makeup		13.16 gal	
	400	lbs	zinc chloride dry		.80 lb	

SALES TAX ☐APPLICABLE ☐NOT APPLICABLE

ITEM NO.	REMARKS			
	3-17-89	25	~~35~~	
		25	—	
		165 (3)	—	
		400	—	
1	3-25-89	35	—	

PURCHASING FILE COPY

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Company of America

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SHIP TO
VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
Phone (201) 859-0085

SHIP VIA ► 1 = Air 2 = Motor Freight 3= UPS 4 = Pick-Up 5 = Other-SEE BELOW

DATE ISSUED	TERMS		SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO.	MARK FOR
5/13/88	N-30	X 2	North Penn	01-06-600-1404-200	

F.O.B.	CONFIRMING TO
Delivered	Bill Ray (215) 785-4500

TO:
W. A. Reynolds
2522 Penn Buck Rd
Bristol, Pa. 19007

• PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.

• MAIL INVOICES TO:
VICTAULIC COMPANY OF AMERICA
BOX 31 • EASTON, PA • 18042
INVOICE TO

Item No.	QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT	UNIT PRICE	TOTAL
	2 ✓	dum	355° make-up 55 gal drum	5/16	13.15	
	1 ✓	drm	355 plant. 55 gal drum	↓	16.70	
	45 ✓	Gal drm	ZN 235° make up		3.25	
			9-3 gal containers			
	2 ✓	drm	280 DD 400° drum		.70	

SALES TAX ☐ APPLICABLE ☑ NOT APPLICABLE

ITEM NO.	REMARKS
	5-13-8 2
	1
	45
	2

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Company of America

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SHIP TO
VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
Phone (201) 859-0085

SHIP VIA ► 1 = Air 2 = Motor Freight 3= UPS 4 = Pick-Up 5 = Other-SEE BELOW

DATE ISSUED	TERMS		SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO. MARK FOR
6/20/88		X		01-06-000-1404-100

F.O.B.

CONFIRMING TO: JOHN N.

TO: W. A. REYNOLDS CO.
2522-A PEARL BUCK RD.
BRISTOL, PA.

- PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.
- MAIL INVOICES TO: VICTAULIC COMPANY OF AMERICA BOX 31 • EASTON, PA • 18042 — INVOICE TO

Item No.	QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT	UNIT PRICE	TOTAL
	~~165~~	~~GAL DRUMS~~			~~5.25 GAL~~	
1.	4	5GAL. CANS.	ZN235 MAKEUP		5.50 GAL.	
2	2	55 GAL DRUMS	ZN235 MAKEUP		5.25 GAL.	
3	110	LB	POTASSIUM PERMANGANATE		1.71 LB.	
4	2	55 GAL DRUMS.	EXCLASID 355 MAKEUP		13.15 GAL.	
5	2	55 GAL DRUMS	EXCLASID 355 MAINT.		15.08 GAL.	
6	1	5GAL.	ZN235 MAKEUP			

SALES TAX ☐ APPLICABLE ☐ NOT APPLICABLE

ITEM NO.	REMARKS			
3,4,5	6/28/88	ALL	ITEM 2+6	Randall Gioia
~~2~~	7/18/88	110 GAL	-0-	
~~6~~	~~7/15/88~~	~~5GAL~~	~~-0-~~	
		ORDER COMPLETE		

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Victaulic
Company of America

SHIP TO

VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
Phone (201) 859-0085

SHIP VIA ► 1 = Air 2 = Motor Freight 3= UPS 4 = Pick-Up 5 = Other-SEE BELOW

TE ISSUED	TERMS			SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO.	MARK FOR
8/15/88	Net 30	x	5	Best way	01-06-000-1404-200/J. Cuvo	
O.B.	CONFIRMING TO					
A-2000#	Barbara					

TO:

W. A. Reynolds Corporation
2522-A Pearl Buck Road
Bristol, PA 19007

• PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.

• MAIL INVOICES TO:
VICTAULIC COMPANY OF AMERICA
BOX 31 • EASTON, PA • 18042

INVOICE TO

QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT
3	drm	Brightener for plating tank Ekolasid 355 Maint.	8/15/88
10	cont	Clear chromate Rodip ZN-235 Makeup (5 gal. cont)	"

SALES TAX ☐ APPLICABLE ☐ NOT APPLICABLE

ITEM	DATE	QUANTITY REC'D	BALANCE DUE
#2	8/22/88	ALL	COMPLETE

ITEM	DATE	QUANTITY REC'D	BALANCE DUE
			—

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Victaulic
Company of America

SHIP TO: VICTAULIC COMPANY OF AMERICA
APX FACILITY
[illegible]
[illegible]

SHIP VIA: 1=Air 2=Motor Freight 3=UPS 4=Pick Up 5=Other—SEE BELOW

DATE: 1-22-88 | TERMS: NET 30 | F.O.B. | DESTINATION: | YOUR TRUCK | CONFIRMING TO/DATE: Barbara | BUYER: TL

ACCOUNT NO. / MARK FOR: 0106201404209 rec crib

TO:
W. A Reynolds Corporation
2522-A Pearl Buck Road
Bristol, PA 19007

* PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.

MAIL INVOICES TO: VICTAULIC COMPANY OF AMERICA, BOX 31, EASTON, PA 18044-0031 USA — INVOICE TO

ITEM	QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT	UNIT PRICE	TOTAL
1	8	Es	450# Electroplating Caustic Cleaner	12/9/88	7¢/# (3600#)	2,664.00
2	10	lbs	Metalline Green Die	12/9/88	31.20/#	312.00
3	10	lbs	Metalline Red Die	12/9/88	30.70/#	307.00
						3,283.00

SALES TAX ☐ APPLICABLE ☑ NOT APPLICABLE

ITEM	DATE	QUANTITY REC'D	BALANCE DUE
#1	12/1/88	ALL	#2 #3
#2 #3	12/8/88	ALL	ORDER COMPLETE

ITEM	DATE	QUANTITY REC'D	BALANCE DUE
	Timothy Le		1b

REQUISITIONER'S COPY

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Company of America

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SHIP TO

VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
Phone (201) 859-0085

SHIP VIA ► 1 = Air 2 = Motor Freight 3= UPS 4 = Pick-Up 5 = Other-SEE BELOW

DATE ISSUED	TERMS	X	S	SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO.	MARK FOR
9/26/88				TT	01-06-606-1404-100	

F.O.B.	CONFIRMING TO
	DALE SMITH

TO: CONESTOGA FUELS, INC
1142 ELIZABETH AVE.
LANCASTER, PA 17604

- PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.

MAIL INVOICES TO:
VICTAULIC COMPANY OF AMERICA
BOX 31 • EASTON, PA • 18042

INVOICE TO

Item No	QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT	UNIT PRICE	TOTAL
	2		650 LB. DRUMS SC-109 CLEANER	9/28/88	.223 LB.	

RE 12-7873

SALES TAX ☐ APPLICABLE ☐ NOT APPLICABLE

ITEM NO.	REMARKS
	9/28/88 2 DRUMS Complete Tom Id Gott

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Company of America

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SHIP TO

VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
Phone (201) 859-0085

SHIP VIA ► 1 = Air 2 = Motor Freight 3= UPS 4 = Pick-Up 5 = Other-SEE BELOW

DATE ISSUED	TERMS			SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO.	MARK FOR
11/29/88	Net	x	5	Your Truck	01-06-000-1404-100/R. Eroh	
F.O.B.	CONFIRMING TO					
	Dale					

TO:

Conestoga Fuels, Inc.
1142 Elizabeth Avenue
Box 4665
Lancaster, PA 17604

• PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.

• MAIL INVOICES TO:
VICTAULIC COMPANY OF AMERICA
BOX 31 • EASTON, PA • 18042

INVOICE TO

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT
1	3,900	lbs	Paint stripper 640#/drum Sc109	11/30/88

SALES TAX ☐ APPLICABLE ☐ NOT APPLICABLE

ITEM	DATE	QUANTITY REC'D	BALANCE DUE
1	12/12/88	ALL	COMPLETE

ITEM	DATE	QUANTITY REC'D	BALANCE DUE

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Company of America

SHIP TO

VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
Phone (201) 859-0085

SHIP VIA ► 1 = Air 2 = Motor Freight 3= UPS 4 = Pick-Up 5 = Other-SEE BELOW

TE ISSUED	TERMS			SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO.	MARK FOR
1/29/88	Net	x	5	Your Truck	01-06-000-1404-200/R. Eroh	
O.B.	CONFIRMING TO					
ew Village, NJ	Wanda 11/28					

TO:

Manley-Regan Chemicals
P.O. Box 391
Middletown, PA 17057

• PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.

• MAIL INVOICES TO:
VICTAULIC COMPANY OF AMERICA
BOX 81 • EASTON, PA • 18042

INVOICE TO

	QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT
1	15,000	lbs	Sulphuric acid 66° (750#/drum)	11/29/88
2	2,500	lbs	Muriatic acid 20° (500#/drum)	"

SALES TAX ☐ APPLICABLE ☐ NOT APPLICABLE

ITEM	DATE	QUANTITY REC'D	BALANCE DUE	ITEM	DATE	QUANTITY REC'D	BALANCE DUE
2	12/1/88	ALL	COMPLETE				

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SHIP TO
VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
Phone (201) 859-0085

SHIP VIA ►1 = Air 2 = Motor Freight 3= UPS 4 = Pick-Up 5 = Other-SEE BELOW

DATE ISSUED	TERMS	SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO.	MARK FOR
11-7-88			01-06-000-1404-100 = 4,5,7 01-06-000-1404-200 = 1,2,3	

F.O.B.	CONFIRMING TO
	OFFICE

TO: MANLEY KEAGAN

• PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.

MAIL INVOICES TO:
VICTAULIC COMPANY OF AMERICA
BOX 31 • EASTON, PA • 18042

INVOICE TO

Item No	QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT	UNIT PRICE	TOTAL
1	20	BAG	POTASSIUM CHLORIDE 50# EA		14.85 CWT.	
2	3	BAG	BORIC ACID 100# EA.		43.25 CWT	
3	20	DRUM	SULFURIC ACID 750# EA.		2.30 CWT	
4	4	DRUM	MURIATIC ACID		5.50 CWT	

SALES TAX ☐ APPLICABLE ☐ NOT APPLICABLE

ITEM NO.	REMARKS
ALL	11/10/88 ALL COMPLETE Ronald A. Gick

PURCHASING FILE COPY

Victaulic
Company of America

X = Confirming Purchase Order - DO NOT DUPLICATE

SHIP TO
VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
Phone (201) 859-0085

SHIP VIA ► 1 = Air 2 = Motor Freight 3= UPS 4 = Pick-Up 5 = Other-SEE BELOW

DATE ISSUED	TERMS	X	SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO.	MARK FOR
5/5/88				200 3 01-06-000-1404-100 1,2	

F.O.B.	CONFIRMING TO
	(717) 944-7471

TO: Manley-Regan Chemicals
532 E. Emaus St.
Middletown, Pa. 17057

- PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.
- MAIL INVOICES TO: VICTAULIC COMPANY OF AMERICA BOX 31 • EASTON, PA • 18042 — INVOICE TO

Item No	QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT	UNIT PRICE	TOTAL
1	~~30~~ 13 ✓ 7	bag. 3/0	Potassium Chloride (50# bags) if 100# Bags need 10	3/9 shp	13.70	
2	10 ✓	drums	Muriatic Acid 500# drum	↓	5.50	
3	12 ✓	drums	Sulphuric Acid 750# drum		6.00	

Changed Qty to 13
Order complete

SALES TAX ☐ APPLICABLE ☑ NOT APPLICABLE

ITEM NO.	REMARKS
5-9-8	13 7
	10 —
	12 —

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Victaulic
Company of America

SHIP TO

VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
Phone (201) 859-0085

SHIP VIA ► 1 = Air 2 = Motor Freight 3= UPS 4 = Pick-Up 5 = Other-SEE BELOW

E ISSUED	TERMS			SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO.	MARK FOR
0/11/88	Net	x	5	Your Truck	01-060900-1404-200/R. Eroh	

B.	CONFIRMING TO
hipping Point	Wanda

TO:

Manley-Regan Chemicals
P.O. Box 391
Middletown, PA 17057

• PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.

• MAIL INVOICES TO:
VICTAULIC COMPANY OF AMERICA
BOX 31 • EASTON, PA • 18042

INVOICE TO

QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT
1,250	lbs	Potassium chloride 50# bag	10/13/88
11,250	lbs	Sulphuric acid 66° (750# drum)	
400	lbs	Boric acid granular tech grade (100#/bag)	
		TOTAL	

SALES TAX ☐ APPLICABLE ☐ NOT APPLICABLE

EM	DATE	QUANTITY REC'D	BALANCE DUE	ITEM	DATE	QUANTITY REC'D	BALANCE DUE
L	10/12/88	ALL	ORDER COMPLETE				

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Victaulic
Company of America

SHIP TO

VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
Phone (201) 859-0085

SHIP VIA ► 1 = Air 2 = Motor Freight 3= UPS 4 = Pick-Up 5 = Other-SEE BELOW

ATE ISSUED	TERMS			SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO. MARK FOR
10/11/88	Net 30	x	5	Best way	01-060000-1404-200/R. Eroh
O.B.	CONFIRMING TO				
FA - 2000#	Barbara Lee				

TO:

W. A. Reynolds Corp.
2522-A Pearl Buck Rd.
Bristol, PA 19007

• PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.

• MAIL INVOICES TO:
VICTAULIC COMPANY OF AMERICA
BOX 31 • EASTON, PA • 18042

INVOICE TO

	QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT
1	200	lbs	Sodium bisulfite 100# bags	10/14/88
2	220	lbs	Potassium permanganate 110# drum	"
3	55	gal	Rodip ZN-235 makeup clear chromate	"
4	165	gal	Ekolasid 355 maint. 55 gal. drum	
5	110	gal	Ekolasid 355 makeup 55 gal. drum	
			TOTAL	

SALES TAX ☐ APPLICABLE ☐ NOT APPLICABLE

ITEM	DATE	QUANTITY REC'D	BALANCE DUE	ITEM	DATE	QUANTITY REC'D	BALANCE DUE
ALL	10/17/88	ALL	ORDERS COMPLETE				

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Victaulic
Company of America

VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
Phone (201) 859-0085

SHIP VIA ► 1 = Air 2 = Motor Freight 3= UPS 4 = Pick-Up 5 = Other-SEE BELOW

DATE ISSUED	TERMS			SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO.	MARK FOR
9/16/88	Net	x	5	Your Truck	01-06-000-1404-100/R. Eroh	

F.O.B.	CONFIRMING TO
New Village, NJ	Wanda

TO:

Manley-Regan Chemicals
P.O. Box 391
Middletown, PA 17057

- PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.
- MAIL INVOICES TO: VICTAULIC COMPANY OF AMERICA BOX 31 • EASTON, PA • 18042 ← INVOICE TO

ITEM	QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT
1	15	dr	Sulphuric acid 66° (11,250#)	9/19/88
2	5	dr	Muriatic acid 20° (500#/dr)	"

RR# 12-7845

SALES TAX ☐ APPLICABLE ☐ NOT APPLICABLE

ITEM	DATE	QUANTITY REC'D	BALANCE DUE
#2	9/19/88	ALL	COMPLETE

ITEM	DATE	QUANTITY REC'D	BALANCE DUE

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Victaulic
Company of America

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SHIP TO
VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
Phone (201) 859-0085

SHIP VIA ► 1 = Air 2 = Motor Freight 3= UPS 4 = Pick-Up 5 = Other-SEE BELOW

DATE ISSUED	TERMS	X	SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO.	MARK FOR
6/30/88		X		#132-01-06-000-1404-200 #301-06-000-1404-100	

F.O.B.

CONFIRMING TO: ROGER R.

TO: MANLEY REGAN
532 E. EMAUS ST.
MIDDLETOWN, PA. 17057

- PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.
- MAIL INVOICES TO: VICTAULIC COMPANY OF AMERICA P.O. BOX 31 • EASTON, PA. • 18042

INVOICE TO

Item No	QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT	UNIT PRICE	TOTAL
1	10	DRUMS	MURIATIC ACID		@ 5.50 CWT.	
2	20	BAGS	POTASSIUM CHLORIDE		13.70 CWT.	
3	25	DRUMS.	SULPHURIC ACID		@ 6.00 CWT	

R.R. # 12-7598

SALES TAX ☐ APPLICABLE ☐ NOT APPLICABLE

ITEM NO.	REMARKS
ALL	6/23/88 ALL -0- Ronald L. Gark

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Victaulic
Company of America

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SHIP TO
VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
Phone (201) 859-0085

SHIP VIA ► 1 = Air 2 = Motor Freight 3 = UPS 4 = Pick-Up 5 = Other-SEE BELOW

DATE ISSUED	TERMS	X	SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO.	MARK FOR
5/25/88				01-06-600-1404-100	

F.O.B.	CONFIRMING TO
	(717) 944-7574

TO: Manley Regan Chemicals
532 E. Emaus St.
Middletown, PA 17057

• PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.

• MAIL INVOICES TO: VICTAULIC COMPANY OF AMERICA BOX 31 • EASTON, PA • 18042 — INVOICE TO

Item No.	QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT	UNIT PRICE	TOTAL
	20	EA	1150# Diam Sulphuric Acid	5/27	600	

SALES TAX ☐ APPLICABLE ☒ NOT APPLICABLE

ITEM NO.	REMARKS
1	5/27/88 20 O

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Victaulic
Company of America

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SHIP TO
VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
Phone (201) 859-0085

SHIP VIA ► 1 = Air 2 = Motor Freight 3= UPS 4 = Pick-Up 5 = Other-SEE BELOW

DATE ISSUED	TERMS		SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO.	MARK FOR
4/12/98		X		01-06-000-1404-200 123 01-06-000-1404-100 4	

F.O.B.

CONFIRMING TO: JOAN (717) 944-7471

TO: Manley-Regan
532 E. Emaus St.
Middletown, Pa. 17057

• PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.

• MAIL INVOICES TO:
VICTAULIC COMPANY OF AMERICA
BOX 31
EASTON, PA 18042

INVOICE TO

Item No.	QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT	UNIT PRICE	TOTAL
1	10	bags	Boric Acid 100# Bags	4/15	40.25	
2	5	Drs.	Hydrochloric Muriatic Acid 500# Drs	↓	5.50	
3	20	bags	Potassium Chloride 50# Bag		13.70	
4	15	Drs.	Sulphuric Acid 750# Drs		6.00	

SALES TAX ☐ APPLICABLE ☑ NOT APPLICABLE

ITEM NO.	REMARKS
	4-14-98 10
	5
	20
	15

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Victaulic
Company of America

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SHIP TO
VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
PHONE (201) 859-0085 OR (215) 253-8440

SHIP VIA ▶ 1 = Air · 2 = Motor Freight · 3 = UPS · 4 = Pick Up · 5 = Other · SEE BELOW

DATE ISSUED	TERMS	SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO.	MARK FOR
2/10/87			01-06-000-1401-200 2,3 01-06-000-1404-106 1	

F.O.B.	CONFIRMING TO:
	Paul (717) 944-7471

TO:
Manley-Regan
532 E. Emaus St.
Middletown Pa. 17057

• PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.

MAIL INVOICES TO:
VICTAULIC COMPANY OF AMERICA
BOX 31 · EASTON, PA. 18042
INVOICE TO

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT	UNIT PRICE	TOTAL
1	15	drum	Sulphuric Acid 750# Drum	2/19	6.00	
2	5	drum	Muriatic Acid 500# Drum	↓	5.50	
3	20	bag	Potassium Chloride 50# Bag		13.70	

SALES TAX ☐ APPLICABLE ☑ NOT APPLICABLE

ITEM NO.	REMARKS
	2-18-87 15
	5
	20

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Victaulic
Company of America

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SHIP TO
VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
PHONE (201) 859-0085 OR (215) 253-8440

SHIP VIA > 1 = Air 2 = Motor Freight 3 = UPS 4 = Pick Up 5 = Other SEE BELOW <

DATE ISSUED	TERMS	SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO. CHARGE TO
4-28-8			one half each 01-06-052-6204-00 01-06-054-6204-00

F.O.B.	CONFIRMING TO:
	Jren

TO:
Manley-Ryan
Middletown
Harrisburg Pa

- PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.
- MAIL INVOICES TO: VICTAULIC COMPANY OF AMERICA BOX 31 EASTON, PA 18042 — INVOICE TO

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT	UNIT PRICE	TOTAL
	5		55 gal drums liquid sodium hydroxide UN1824. Caustic soda	4-30-8		

SALES TAX ☐ APPLICABLE ☑ NOT APPLICABLE

ITEM NO.	REMARKS
	4-30-8 5 —

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Victaulic
Company of America

X = Confirming Purchase Order - DO NOT DUPLICATE

SHIP TO
VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
PHONE (201) 859-0085 OR (215) 253-8440

SHIP VIA ► 1 = Air 2 = Motor Freight 3 = UPS 4 = Pick Up 5 = Other — SEE BELOW

DATE ISSUED	TERMS	X	SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO.	MARK FOR
2/3/88				01-06-000-1404-100 5 01-06-000-1404-200 1,2,3,4	

F.O.B.	CONFIRMING TO
	LINDA (717) 944-7471

TO:
MANLEY-REGAN CHEMICALS
532 E. EMAUS ST.
MIDDLETOWN, PA. 17057

- PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.

MAIL INVOICES TO: VICTAULIC COMPANY OF AMERICA BOX 31 • EASTON, PA. 18042 — INVOICE TO

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT	UNIT PRICE	TOTAL
1	2 ✓	EA	#100 Bag Boric Acid	2/5	40.25	
2	1 ✓	EA	#140 Drum Hydrogen Peroxide	↓	33.70	
3	20 ✓	EA	#50 Bag Potassium Chloride		13.70	
4	5 ✓	EA	#500 Drum Muratic Acid		5.50	
5	15 ✓	EA	#750 Drum Sulphuric Acid		6.00	

SALES TAX ☐ APPLICABLE ☑ NOT APPLICABLE

ITEM NO.	REMARKS
	2-4-88
1	2
2	1
3	20
4	5
5	15

PURCHASING FILE COPY

PURCHASE ORDER NO. 3938

Victaulic Company of America

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SHIP TO
VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08836
PHONE (201) 859-0085 OR (215) 253-8440

SHIP VIA ► 1 = Air 2 = Motor Freight 3 = UPS 4 = Pick-Up 5 = Other — SEE BELOW

DATE ISSUED	TERMS		SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO.	MARK FOR
11/2/88		X			
F.O.B.	CONFIRMING TO				
	Sue 253-6206				

TO: Tower Chemical
Easton, Pa. 18042

01-06-000-1404-100

• PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.

• MAIL INVOICES TO:
VICTAULIC COMPANY OF AMERICA
BOX 31 • EASTON, PA. • 18042

INVOICE TO

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT	UNIT PRICE	TOTAL
	5	ea	Tower 464 ✓	11/15	.54	

6405
3200

SALES TAX ☐ APPLICABLE ☑ NOT APPLICABLE

ITEM NO.	REMARKS
1-15-8	5

PURCHASING FILE COPY

PURCHASE ORDER NO. 3994

X= Confirming Purchase Order - DO NOT DUPLICATE

Victaulic Company of America

SHIP TO
VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, NJ 08886
PHONE (201) 859-0045 OR (215) 253-8440

SHIP VIA ► 1=Air 2=Motor Freight 3=UPS 4=Pick Up 5=Other SEE BELOW

DATE ISSUED	TERMS		SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO.
2/16/88		X		
F.O.B.	CONFIRMING TO			
	Sue 253-6206			

01-06-038-6204-100 1
01-06-000-1404-100 2

TO: Tower Chemical
Easton, Pa 18042

• PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.

• MAIL INVOICES TO:
VICTAULIC COMPANY OF AMERICA
BOX 31 • EASTON, PA • 18042
INVOICE TO

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT	UNIT PRICE	TOTAL
1	4 ✓	ea	5 gal. Cont. 392 Safety Solvent	2/19 ✓	13.00 ea	
2	6 ✓	drm	Tower 464 640# Drum ✓		.54 #	

SALES TAX ☐APPLICABLE ☑NOT APPLICABLE

ITEM NO.	REMARKS
	2-18-8 4
	6

PURCHASING FILE COPY

PURCHASE ORDER No. AP 4063

Victaulic Company of America

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SHIP TO
VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
Phone (201) 859-0085

SHIP VIA ► 1 = Air 2 = Motor Freight 3= UPS 4= Pick-Up 5 = Other-SEE BELOW

DATE ISSUED	TERMS	X	SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO.	MARK FOR
4/13/88		X		01-06-000-1404-100	

F.O.B.	CONFIRMING TO
	Jen 253-6206

TO: Tower Chemical
Easton, Pa. 18042

- PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.
- MAIL INVOICES TO: VICTAULIC COMPANY OF AMERICA BOX 31 • EASTON, PA • 18042 — INVOICE TO

Item No.	QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT	UNIT PRICE	TOTAL
	6 ~~X~~	EA	Tower 464 Paint Stripper (140 # Drum	4/19	.54	
	4	EA	Safety Solvent Sqt. cont. 392	↓	13.00	
			2 640 6 / 40 3			
			6 samples known as is			

SALES TAX ☐ APPLICABLE ☑ NOT APPLICABLE

ITEM NO.	REMARKS
	4-16-8 6

PURCHASING FILE COPY

PURCHASE ORDER № AP 4110

Victaulic Company of America

X = Confirming Purchase Order - DO NOT DUPLICATE

SHIP TO
VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, NJ 08886
Phone (201) 859-0085

SHIP VIA ► 1 = Air 2 = Motor Freight 3= UPS 4 = Pick-Up 5 = Other-SEE BELOW

DATE ISSUED	TERMS	X	SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO.	MARK FOR
5/16/8		X		01-06-000-1404-100	

F.O.B.	CONFIRMING TO
	Sue 253-6206

TO: Tower Chemical
Easton, Pa. 18042

- PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.
- MAIL INVOICES TO: VICTAULIC COMPANY OF AMERICA, BOX 31 • EASTON, PA • 18042

INVOICE TO

Item No.	QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT	UNIT PRICE	TOTAL
	8	ea	Tower 464 Paint Stir 3200		.54	
	6		3640			
	2	B/O	5120			

SALES TAX ☐ APPLICABLE ☑ NOT APPLICABLE

ITEM NO.	REMARKS			
	5-19-8	6	2	
	5-24-88	2	0	

PURCHASE ORDER NO. AP 4170

Victaulic Company of America

X = Confirming Purchase Order - DO NOT DUPLICATE

SHIP TO

VICTAULIC COMPANY OF AMERICA
APEX FACILITY
EDISON ROAD
NEW VILLAGE, N.J. 08886
Phone (201) 859-0085

SHIP VIA ► 1 = Air 2 = Motor Freight 3= UPS 4 = Pick-Up 5 = Other-SEE BELOW

DATE ISSUED	TERMS			SHIP VIA BEST WAY UNLESS SHOWN BELOW	ACCOUNT NO. MARK FOR
10/11/88	1%-10; Net 30	x	5	Your Truck	01-060000-1404-100/R. Eroh

F.O.B.	CONFIRMING TO
Easton, PA	Jean

TO:

Tower Chemical
P.O. Box 3070
Palmer, PA 18043

• PART NO., PART NAME, QUANTITY AND ORDER NO. MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, PACKAGES AND SHIPPING PAPERS.

• MAIL INVOICES TO:
VICTAULIC COMPANY OF AMERICA
BOX 31 • EASTON, PA • 18042

INVOICE TO

Item No.	QUANTITY	UNIT	DESCRIPTION	DATE REQUIRED IN PLANT
1	3,840	lbs	Paint stripper 640#/drum #464	10/13/88

SALES TAX ☐ APPLICABLE ☐ NOT APPLICABLE

ITEM	DATE	QUANTITY REC'D	BALANCE DUE	ITEM	DATE	QUANTITY REC'D	BALANCE DUE
	10/11/88	ALL	ORDER COMPLETE				

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APPENDIX II

cc GFN
DSB

Let's protect our earth

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
CN 029
TRENTON, NEW JERSEY 08625

GEORGE G. McCANN, P.E.
DIRECTOR

DIRK C. HOFMAN, P.E.
DEPUTY DIRECTOR

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Victaulic Company of America
Box 31, 4901 Kesslerville Road
Easton, PA 18042

FEB 25 1988

Re: Apex Facility
NJPDES Permit No. NJ0099791

Dear Permittee:

Enclosed is the final NJPDES/Ground Water Discharge Permit to discharge pollutants to the ground waters of the State, issued in accordance with the New Jersey Pollutant Discharge Elimination System (NJPDES) Regulations, N.J.A.C. 7:14A-1 et seq. Violation of any condition of this permit may subject you to significant penalties.

This permit is being issued to Victaulic Company of America ("Victaulic") and Franklin Industrial Park as co-permittees. The reason for this is as follows. When the permit becomes effective, Victaulic will be an active discharger and the owner of the discharge point, and Franklin Industrial Park will be the owner of the regulated unit, which is the place at which the discharge to ground water occurs. N.J.A.C. 7:14A-2.1(b) 1 & 2 state: "The following persons shall obtain a NJPDES permit: a person who currently owns any part of a facility which includes (a regulated activity) and a person who currently operates any facility which includes (a regulated activity)." N.J.A.C. 7:14A-2.1(c) states further: "Whenever...more than one person is required to obtain a NJPDES permit for one or more activities at a specific site, the Department shall issue a single permit which lists all these persons as permittees." It is the responsibility of the co-permittees to determine their respective roles in complying with the provisions of the permit.

During the public comment period mandated by N.J.A.C. 7:14A-8.1, Victaulic made several comments through its agent, Farer, Siegal, & Fersko. These comments have been summarized and responded to as follows:

Comment #1: Victaulic intends to install a waste water recycling

system, which will be operational by April 15, 1988. There will be no discharge for which a NJPDES permit is necessary.

Response: The NJPDES Regulations requires ground water monitoring systems for all discharges, past and present, actual or potential. The specific reference is N.J.A.C. 7:14A-6.1(a). In light of the fact that Victaulic has had a waste water discharge for several years and that Victaulic's discharge will be terminated after the Effective Date of Permit , the NJPDES permit will be issued.

Comment #2: In the Special Conditions, there is a requirement that Victaulic obtain an easement from Franklin Industrial Park for the discharge. Since Victaulic will be installing a treatment system, obtaining this easement will be unnecessary.

Response: The Special Conditions have been reworded so that obtaining the easement will only be necessary if the discharge is continued for more than 60 days from the Effective Date of Permit. Also, a requirement to apply for a Treatment Works Approval (TWA) will be included, should a waste water treatment system be installed.

Comment #3: It is a misnomer to call the abandoned tunnel system and basement of an old ruin an "infiltration-percolation lagoon".

Response: In the NJPDES permit application, Victaulic classified the unit as a "surface impoundment". The Department categorized this unit as an "infiltration-percolation lagoon" ("lagoon") rather than a "surface impoundment" ("impoundment") because the basement was not shown to meet the permeability criterion of 10^{-7} cm/sec or less. The discharge monitoring requirements shall remain a condition of the permit until the permittees submit a closure plan for the unit and a request for a major modification for closure.

Comments #4-7, & 9: The discharge into the tunnel system contains other discharges in addition to Victaulic's waste water discharge. The other discharges are industrial runoff from Franklin Steel Company, Henkel and McCoy, Inc., and perhaps others, and storm water from a drainage ditch, which collects from the county roads, railroads, and agricultural fields in the area. Ground water monitoring will not serve the purpose of identifying the effect of Victaulic's discharges on ground water quality, as it will not be possible to separate the effects of the other discharges from the effect of Victaulic's discharges.

Response: The ground water monitoring system defined in the permit includes parameters for analysis which were chosen as suitable parameters for monitoring the discharges from an electroplating facility. As such, the ground water monitoring system should serve its purpose of identifying the effects of Victaulic's discharges on ground water quality. To date, neither Victaulic nor Franklin Industrial Park have furnished the Department with evidence that there are other discharges to the regulated units defined in the permit. If other such discharges

are discovered, the Department will modify the permit as appropriate.

Comment #8: In light of the discharges mentioned in Comments #4-7, it is impossible for the permittees to close the "lagoon" referred to in Comment #3, as would be required by the Additional General Conditions.

Response: The Additional General Conditions were included for Victaulic's storm water lagoon. The condition for closure for the waste water discharge is relegated to the Special Conditions. Regarding this closure condition, the Department will accept a closure plan which includes cessation of the discharge, analyses for applicable parameters of the soils and/or erosional residue in the tunnel system and basement, and infilling of the basement and tunnel system. If the tunnel system is not or cannot be blocked off, then discharge and ground water monitoring must be continued. It is the responsibility of Victaulic and Franklin Industrial Park as co-permittees to determine their respective involvements in all aspects of the permit, including the closure plans, and to request modifications of the permit as appropriate.

Comments #11, 12 & 14: The draft permit contains a requirement to sample the storm water drainage basin adjacent to the facility. The requirement to sample and the parameters for the analysis of samples are not related to any source of pollutants. Also, when the basin is dry, Victaulic will not be able to take a sample as required by the permit.

Response: Runoff from industrial areas is defined as a pollutant in N.J.A.C. 7:14A-1.9. A lagoon used to manage pollutants requires monitoring pursuant to N.J.A.C. 7:14A-6.7. The parameters for analysis are primarily the conjugate bases of acids which Victaulic uses. Victaulic stores the wastes from these acids in above-ground tanks nearby before they are picked up and disposed of off-site. Petroleum Hydrocarbons is also a parameter, as the lagoon is near the facility's parking lot. It is possible that there would be little or no rain during a month in which the permittee would be required to sample. In such a case, the permittee must still submit a monitoring report with a statement that there was no discharge in the sampling month.

Comment #13: The water in the storm water runoff basin will be "perched water" and not representative of water discharged to ground water.

Response: This comment is inferred to mean that the water which will collect in the basin will not infiltrate but simply remain in the basin until it evaporates. As mentioned in the response to Comment #3, such a unit would be classified as a surface impoundment if it can be shown to have a permeability of 10^{-7} cm/sec or less. If such permeability data is submitted, the basin will be reclassified as an impoundment but must still be monitored, as both lagoons and impoundments are regulated units.

Comment #15: The Permit Page of the draft permit identifies

Victaulic as the owner of the premises. The public notice identifies Franklin Industrial Park as the owner of the premises which receives the groundwater discharge. The draft permit is not clear in its description of the ownership of the premises for which the permit is issued.

Response: The area which receives ground water discharge is owned in part by Victaulic and in part by Franklin Industrial Park. The Permit Page has been modified to reflect this in the Final Permit.

Be advised that any request for an adjudicatory hearing to reconsider or contest the conditions of this permit must be made within 30 calendar days following your receipt of this permit. The request should be made to:

Administrator
NJDEP Division of Water Resources
Water Quality Management Element
CN-029
Trenton, New Jersey 08625

If you have any questions on this action, please contact Michael Infanger of the Bureau of Ground Water Quality Management at (609) 292-0424.

Sincerely,

Robert Berg, Chief
Bureau of Ground Water Quality Management

WQM282
Enclosures

FACT SHEET

FOR THE NJPDES PERMIT TO DISCHARGE INTO THE GROUND WATERS OF THE STATE

NAME AND ADDRESS OF APPLICANTS:

Victaulic Company of America
P.O. Box 31
Easton, PA 18042

Franklin Industrial Park
489 Frelinghuysen Ave.
Newark, NJ 07114

NAME AND ADDRESS OF FACILITIES WHERE DISCHARGE OCCURS:

Apex Facility
Edison Road
Franklin Township
Lot No. 1, Block No. 27
New Village
Warren County, NJ 08808

Franklin Industrial Park
Edison Road
Franklin Township
Lot No. 12, Block No. 41
New Village
Warren County, NJ 08808

RECEIVING WATER:

Ground waters of the state. The discharge is to undifferentiated Kittatinny Group of Cambro-Ordovician age.

DESCRIPTION OF FACILITIES:

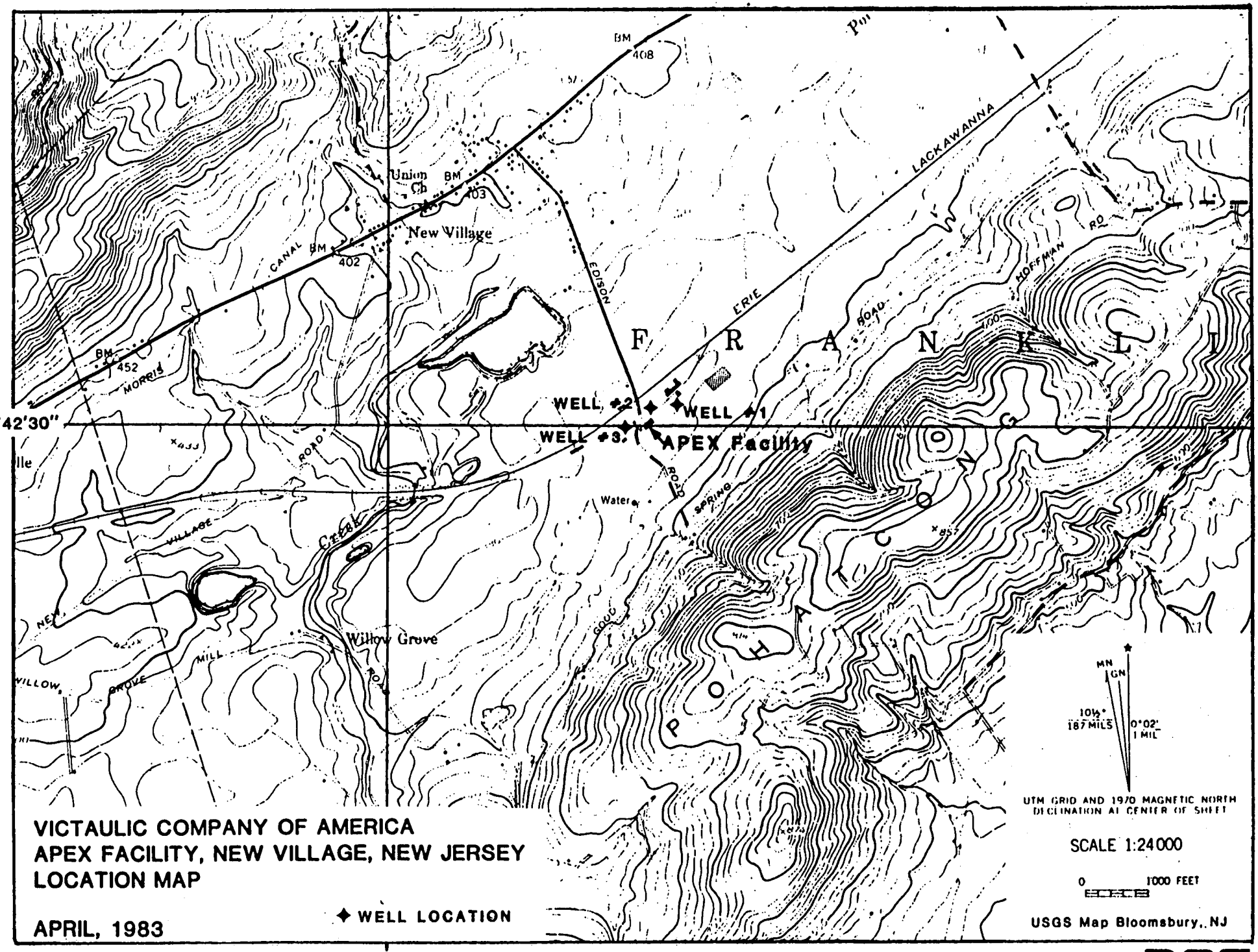
The facility finishes iron and steel pipe couplings and other items by rack and barrel zinc plating and hot dip galvanizing. The waste water from the plating operation discharges into the tunnel complex of the abandoned cement plant through the basement of the Apex facility. The discharge drains through the tunnel complex and collects in the basement of an abandoned building approximately 1500' from the facility. The discharge percolates into the ground water both in the tunnel and in the abandoned building's basement. The property which contains the abandoned building is Lot No. 12, Block No.41 of Franklin Township and is owned by Franklin Industrial Park of Newark, New Jersey. The Apex Facility also has a small lagoon in the parking lot for stormwater runoff.

DESCRIPTION OF DISCHARGE:

The discharge consists of water used to rinse the products, before and after the plating process, and storm runoff from the parking lot.

PERMIT CONDITIONS:

Issue the NJPDES Permit with the attached general and special conditions.



VICTAULIC COMPANY OF AMERICA
APEX FACILITY, NEW VILLAGE, NEW JERSEY
LOCATION MAP

APRIL, 1983

✦ WELL LOCATION

New Jersey Pollutant Discharge Elimination System

The New Jersey Department of Environmental Protection hereby restricts and controls the discharge of pollutants to waters of the State from the subject facility/activity in accordance with applicable laws and regulations. The permittee is responsible for complying with all terms and conditions of this authorization and agrees to said terms and conditions as a requirement for the construction, installation, modification or operation of any facility for the collection, treatment or discharge of any pollutant to waters of the State.

PERMIT NUMBER NJ0099791

Permittee	Co-Permittee
VICTAULIC COMPANY OF AMERICA BOX 31;4901 KESSLERVILLE ROAD EASTON, PA 18402	FRANKLIN INDUSTRIAL PARK 489 FRELINGHUYSEN AVENUE NEWARK, NJ 07114
Property Owner	**Location of Activity**
SEE "OWNERS" BELOW	APEX FACILITY EDISON RD NEW VILLAGE, NJ 08808

Type of Permit Covered By This Approval	Issuance Date	Effective Date	Expiration Date
I :Infilt/Perc. Lagoon - Ind.	3/01/88	4/01/88	3/31/93

OWNERS:

Victaulic Company of America
Box 31; 4901 Kesslerville Road
Easton, PA 18402

Franklin Industrial Park
489 Frelinghuysen Avenue
Newark, New Jersey 07114

By Authority of:
George G. McCann, P.E.
Director
Division of Water Resources

DEP AUTHORIZATION
Arnold Schiffman, Administrator
Water Quality Management

(Terms, conditions and provisions attached hereto)

CHECKLIST OF PARTS AND MODULES COMPRISING THIS NJPDES PERMIT

1. Cover Page
2. Checklist
3. Part I (General Conditions for All NJPDES Discharge Permits)
4. Part II - Additional General Conditions for the types of NJPDES Permits checked as follows:

____ Part II - A (Municipal/Sanitary)
____ Part II - B/C (Industrial/Commercial/Thermal)
____ Part II - L (SIU)
____ Part II - IWMF (Industrial Waste Management Facility)
X Part II - DGW Specify type(s): Infiltration/Percolation lagoon

5. Part III - Effluent Limitations and Monitoring Requirements

____ Part III - A
____ Part III - B/C
____ Part III - L
X Part III - DGW Specify type(s): Discharge Limitaions and Monitoring Requirements
Ground Water Monitoring Requirements and Standards

6. Part IV - Special Conditions

____ Part IV - A
____ Part IV - B/C
____ Part IV - L
____ Part IV - IWMF
X Part IV - DGW

State of New Jersey
Department of Environmental Protection
Division of Water Resources

GENERAL CONDITIONS FOR ALL NJPDES/DGW PERMITS

The New Jersey Pollutant Discharge Elimination System (NJPDES) regulations (N.J.A.C. 7:14A-1 et seq.) as authorized by the New Jersey Water Pollution Control Act (N.J.S.A. 58:10A et seq.) identify requirements for all Discharge to Ground Water Permits. Information concerning these general permit requirements may be found in the following sections of the NJPDES regulations.

Permit Requirement	Citation
General Information	Subchapter 1
General Requirements for the NJPDES Permit	Subchapter 2
Additional Requirements for an Industrial Waste Management Facility	Subchapter 4
Additional Requirements for Underground Injection Control Program	Subchapter 5
Additional Requirements for Discharges to Ground Water (DGW)	Subchapter 6
Procedures for Decision Making	Subchapter 7
Public Comments and Public Notice	Subchapter 8
Filing Requirements for NJPDES Permits	Subchapter 10
Public Access to Information and Requirements for Departmental Determination of Confidentiality	Subchapter 11

ADDITIONAL GENERAL CONDITIONS FOR INDUSTRIAL DISCHARGES BY INFILTRATION-PERCOLATION LAGOONS

I. Construction Requirements

A. General Requirements

1. The infiltration-percolation lagoon(s) shall be designed, constructed, maintained and operated to prevent overtopping resulting from normal or abnormal operations, overfilling, wind and wave action, precipitation, run-on and run-off, malfunctions of level controllers, alarms and other equipment and human error.

2. All infiltration-percolation lagoons shall be fenced to prevent unauthorized access or entry.

3. For all new infiltration-percolation lagoons, when flow is to, from or between lagoons, all interconnections shall be piped or lined with an impervious material which will prevent degradation of the lagoon banks, dikes or bottom. All flow shall be directed along the longest axis of the lagoon(s).

4. For new construction, all piping, manholes, outfalls, etc., must be installed prior to the construction of the foundation, banks or dikes.

5. When computed on a 30 day average, the hydraulic loading to the infiltration-percolation lagoon(s) shall be equal to or less than the saturated hydraulic conductivity (Ksat) for the most restrictive soil horizon within 15 feet of the surface.

6. The infiltration-percolation lagoon(s) shall have banks or dikes that are designed, constructed and maintained with sufficient structural integrity to prevent massive failure of the dikes. For new construction, the structural integrity of the banks or dikes shall be certified by the signature and seal of a New Jersey licensed Professional Engineer. Said certification shall be supplied to the Department prior to the discharge of any pollutants to the infiltration-percolation lagoon.

7. For new construction, immediately after installation of soil-based or admixed foundations,

banks or dikes, they must be inspected for imperfections including lenses, cracks, channels, root holes or other structural defects that may cause significant non-uniformity in the permeability of the infiltration-percolation lagoon(s). Said significant non-uniformities shall be corrected before pollutants are discharged to the infiltration-percolation lagoon(s).

II. Operation and Maintenance

A. General Requirements

1. The permittee shall perform a physical inspection of all visible portions of the infiltration-percolation lagoon(s) on at least a weekly basis and after storms to:

   a. Ensure that the foundation, banks and dikes have remained structurally sound;

   b. Detect evidence of any deterioration, malfunctions or other improper operation of the over-topping control system;

   c. Detect erosion, undermining or other signs of deterioration in foundation(s), banks, dikes or other containment devices;

   d. When malfunctions or failures are observed or suspected, the permittee shall comply with Section 14 (Reporting Non-Compliance) in the General Conditions for all NJPDES Permits; and

   e. The permittee shall report to the Department on at least an annual basis the results of all inspections.

2. The permittee shall submit to the Department on an annual basis within the first quarter of each year a list of all material(s) discharged to the infiltration-percolation lagoon(s).

3. Prior to the removal and disposal of any sludge that has accumulated on the bottom of the infiltration-percolation lagoon(s), the permittee shall at his own expense have an EP Toxicity Test (or other such test as the Department may currently require) performed by a New Jersey

certified laboratory. The results of the EP Toxicity (or other such approved test) shall be forwarded to the Bureau of Hazardous Waste Manifest and Classification of the Division of Waste Management to determine the classification of the sludge. Based on the results of the sludge characterization test(s), the permittee shall dispose of the sludge in a manner approved by the Department.

4. After any repairs are made to the infiltration-percolation lagoon(s) or after any extended period of time (Minimum of 6 months) during which the infiltration-percolation lagoon(s) is (are) not in service, the permittee shall obtain a certification from a qualified New Jersey licensed Professional Engineer that the lagoon banks, foundation and dikes (including that portion of any bank or dike which provide freeboard) have structural integrity. Said certification shall be signed and sealed by the New Jersey licensed Professional Engineer and shall establish in particular that the lagoon(s) will withstand the physical and chemical stresses of resumed operation.

B. Contingency Requirements

1. Within 6 months of the effective date of the permit, the permittee shall develop a worst-case emergency repair plan which shall be submitted to the Department for review and approval. This emergency plan shall include, at a minimum, provisions for such events as the collapse or overrun of a bank or berm, failure of the foundation, or other such event which necessitates the removal of the contents of the lagoon(s). The permittee shall describe in detail the methods by which the contents of the lagoon(s) will be emptied and disposed. This contingency plan shall, upon Department approval, be kept on the facility premises at all times. Further, said plan shall be forwarded to the appropriate local government agencies.

2. When an infiltration-percolation lagoon must be removed from service, the permittee shall immediately shut off the flow or stop the addition of substances to the lagoon, contain any surface leakage which has occurred or is occurring, stop the leak, take any and all necessary steps to stop or prevent catastrophic failure, notify the

Department immediately by telephone at (609) 292-7172 and in writing within 7 days after detecting the problem. If a leak or failure cannot be stopped by any means within 24 hours after detection, the lagoon(s) shall be handled pursuant to the worst-case contingency plan as required in paragraph II.B.1. of these Additional General Conditions.

3. No infiltration-percolation lagoon that has been removed from service in accordance with the requirements of this section may be restored to service unless the portion(s) of the lagoon(s) which was (were) failing is repaired.

   a. If the lagoon(s) was (were) removed from service due to actual or imminent bank or dike failure, the structural integrity shall be certified as required in section II.A.4. (Operation and Maintenance) of these Additional General Conditions for Industrial Discharges by Infiltration-Percolation.

   b. The Department reserves the right to inspect the infiltration-percolation lagoon(s) prior to, during and after repairs are made. If, in the judgement of the Department, the original lagoon system or portions of the system were insufficient or inadequate, the permittee shall install a new upgraded system subsequent to review and approval by the Department.

   c. An infiltration-percolation lagoon that is to be removed from service shall be closed in accordance with a NJPDES/DGW Closure Post Closure Permit.

C. Closure Requirements

1. The permittee shall, no later than 180 days prior to the anticipated closure of the infiltration-percolation lagoon(s), submit to the Department an application for a NJPDES/DGW Closure-Post Closure permit. Said application shall include and identify all closure and post-closure activities that will be conducted prior to and subsequent to closure of the infiltration-percolation lagoon(s).

Discharge Sample I01

Discharge Limitations and Monitoring Requirements

The sample shall be taken at the stormwater runoff lagoon. All sampling shall be performed according to the methodology specified in the Department's Field Procedures Manual for Water Data Acquisition.

PARAMETER	DISCHARGE LIMIT	SAMPLING MONTH	SAMPLE TYPE *1	REPORTING MONTH
pH, S.U.	5-9	April Oct	Grab	May Nov
Chloride, mg/l	500	April Oct	Grab	May Nov
Fluoride, mg/l	4.0	April Oct	Grab	May Nov
Nitrate-Nitrogen, mg/l	20	April Oct	Grab	May Nov
Petroleum Hydrocarbons, mg/l	20	April Oct	Grab	May Nov
Phosphate, mg/l	---	April Oct	Grab	May Nov
Sulfate, mg/l	500	April Oct	Grab	May Nov
Total Dissolved Solids (TDS), mg/l	1000	April Oct	Grab	May Nov
Zinc, mg/l	10	April Oct	Grab	May Nov

The permittee shall complete the forms required on the "Monitoring Report - Transmittal Sheet" (Form T-VWX-014) which is included as a part of this permit. Failure to submit sampling data on the forms required on the "Monitoring Report - Transmittal Sheet" shall be considered by the Department to be a violation of the permit sampling requirements and may place the permittee subject to civil and administrative penalties pursuant to N.J.S.A. 58:10A-10. Discharge monitoring reports are to be sent to the same address as ground water monitoring reports as cited in Part III-DGW, Page 5 of 10.

It shall be solely the permittee's responsibility to maintain an adequate supply of the required report forms.

NOTES:
*1 "Grab" means an individual sample of at least 100 milliliters collected over a period not exceeding 15 minutes.

Discharge Sample I02

Discharge Limitations and Monitoring Requirements

The sample shall be taken at the discharge point of wastewater to the tunnel system. All sampling shall be performed according to the methodology specified in the Department's Field Procedures Manual for Water Data Acquisition.

PARAMETER	DISCHARGE LIMIT	SAMPLING MONTH	SAMPLE TYPE *1	REPORTING MONTH
Flow, GPD	---	JanAprJulOct	Continuous	FebMayAugNov
pH, S.U.	5-9	JanAprJulOct	Grab	FebMayAugNov
Ammonia-Nitrogen (NH3-N), mg/l	1.0	JanAprJulOct	Grab	FebMayAugNov
Arsenic, mg/l	0.1	JanAprJulOct	Grab	FebMayAugNov
Barium, mg/l	2.0	JanAprJulOct	Grab	FebMayAugNov
Cadmium, mg/l	0.02	JanAprJulOct	Grab	FebMayAugNov
Cyanide, mg/l	0.4	JanAprJulOct	Grab	FebMayAugNov
Chloride, mg/l	500	JanAprJulOct	Grab	FebMayAugNov
Chromium (Hex.), mg/l	0.1	JanAprJulOct	Grab	FebMayAugNov
Copper, mg/l	2.0	JanAprJulOct	Grab	FebMayAugNov
Lead, mg/l	0.1	JanAprJulOct	Grab	FebMayAugNov
Manganese, mg/l	0.1	JanAprJulOct	Grab	FebMayAugNov
Mercury, mg/l	0.004	JanAprJulOct	Grab	FebMayAugNov
Nickel, mg/l	---	JanAprJulOct	Grab	FebMayAugNov
Nitrate Nitrogen, mg/l	20.0	JanAprJulOct	Grab	FebMayAugNov
Phosphate, mg/l	---	JanAprJulOct	Grab	FebMayAugNov
Selenium, mg/l	0.02	JanAprJulOct	Grab	FebMayAugNov
Sulfate, mg/l	500	JanAprJulOct	Grab	FebMayAugNov

Total Dissolved Solids (TDS), mg/l	1000	JanAprJulOct	Grab	FebMayAugNov
Total Volatile Organics by GC/MS	*2	JanAprJulOct	Grab	FebMayAugNov
Total Xylenes, ppb	*3	JanAprJulOct	Grab	FebMayAugNov
Zinc, mg/l	10.0	JanAprJulOct	Grab	FebMayAugNov

The permittee shall complete the forms required on the "Monitoring Report - Transmittal Sheet" (Form T-VWX-014) which is included as a part of this permit. Failure to submit sampling data on the forms required on the "Monitoring Report - Transmittal Sheet" shall be considered by the Department to be a violation of the permit sampling requirements and may place the permittee subject to civil and administrative penalties pursuant to N.J.S.A. 58:10A-10. Discharge monitoring reports are to be sent to the same address as the ground water monitoring reports as cited in Part III-DGW, Page 5 of 10.

It shall be solely the permittee's responsibility to maintain an adequate supply of the required report forms.

NOTES:

*1 "Grab" means an individual sample of at least 100 milliliters collected over a period not exceeding 15 minutes.

*2 40 CFR Part 136-Method 624 shall be used to identify and monitor for the volatile organic compounds identified in Appendix B of the NJPDES Regulations for the initial round of sampling. Included in this analysis shall be the identification of 15 unknown peaks. The GC/MS method 624 shall be utilized until the concentration of the constituents reach the corrective action criteria or the method detection limit, whichever is higher. After the initial round of sampling, 40 CFR Part 136-Methods 601 and 602 may be used to identify and monitor for volatile organic compounds unless permittee is directed by the Department to use a different method. Additional information concerning volatile organic compound limitations and classifications can be found in the following Ground Water Monitoring Requirements and Limitations Table (Part III-DGW, Page 8 of 10).

*3 40 CRF Part 136-Method 602 shall be used to identify and monitor for Total Xylenes. Xylene shall be considered a Group B-1 compound as described in Note *2 of the Ground Water Monitoring Requirements And Limitations Table (Part III, Page 8 of 10).

GROUND WATER MONITORING REQUIREMENTS AND STANDARDS

1. The permittee shall install four (4) ground water monitoring wells. The wells must be installed within 30 days of the Effective Date of the Permit. The wells must be installed by a licensed New Jersey well driller pursuant to N.J.A.C. 58:4A-6 and constructed according to the attached Department specifications (Attachment 1). A valid New Jersey permit to drill a well must be obtained from the Water Allocation Office at (609) 984-6831 prior to the installation of any ground water monitoring wells.

2. The locations of all the ground water monitor wells required to be sampled or monitored, including existing or proposed wells, are shown on Attachment 2. Ground water monitor wells shall be located within a reasonable distance of each proposed location, and the location must be approved of by a Department geologist.

3. The permittee shall provide the Bureau of Ground Water Quality Management a minimum of two weeks notification prior to the installation of any ground water monitoring wells required by this permit.

4. A Ground Water Monitoring Well Certification (Forms A and B) shall be completed for each existing and proposed ground water monitoring well within 30 days of the installation of the ground water monitoring wells. Information for each well must be shown on a separate form. The Ground Water Monitoring Well Certifications shall be submitted to:

   NJDEP-Division of Water Resources
   Bureau of Ground Water Quality Management
   CN-029
   Trenton, NJ 08625

5. For an existing well, if information required on the Ground Water Monitoring Certification (Forms A and B) cannot be determined or the ground water monitoring well is not adequately constructed to meet the requirements of this permit, the Department reserves the right to require the replacement of that well. Criteria to be used by the Department in judging the adequacy of a well will be related to the ability of the well to provide a representative ground water sample from the portion of the aquifer which the Department requires to be sampled. Any replacement well must be installed within a 10 foot radius of the existing

well. Inadequate or damaged existing wells must be properly sealed pursuant to N.J.A.C. 58:4A-4.1. Instructions regarding sealing may be obtained by contacting the Water Allocation Office at (609) 984-6831.

6. Within one-hundred and twenty (120) days of the Effective Date of the permit, the permittee shall identify to the Department the location of all ground water monitoring wells, piezometers, and supply wells on a plot plan drawn to a scale suitable to the Department.

7. Unless dedicated sampling equipment is used, the permittee shall sample the ground water monitoring wells in the following order:

    1. MW-1
    2. MW-2
    3. MW-3
    4. MW-4

8. When the concentration of any permit required sampling parameter exceeds the standard which has been identified for that parameter, the permittee shall comply with the requirements of N.J.A.C. 7:14A-6.15(j), Compliance Monitoring.

9. The permittee shall complete the forms required on the "Monitoring Report - Transmittal Sheet" (Form T-VWX-014) which is included as a part of this permit. Failure to submit sampling data on the forms required on the "Monitoring Report - Transmittal Sheet" shall be considered by the Department to be a violation of the permit sampling requirements and may place the permittee subject to civil and administrative penalties pursuant to N.J.S.A. 58:10A-10. It shall be the permittee's sole responsibility to maintain an adequate supply of the required report forms. All monitoring reports shall be sent to:

    Department of Environmental Protection
    Division of Water Resources
    Water Quality Management Element
    Bureau of Permits Administration
    CN-029
    Trenton, NJ 08625

    ATTN: Monitoring Well Reports

10. Satisfactory ground water wells are defined in Section 6.13 of the NJPDES regulations and shall be subject to Departmental approval. If ground water monitoring wells do not meet these standards, they must be replaced with new wells meeting Departmental standards. Each ground water monitoring well must have the elevation of the top of the casing and the well permit number permanently marked on the well casing.

11. The owner or operator shall inspect each ground water monitoring well on a weekly basis for structural integrity and/or damage. The permittee shall maintain a complete inspection record indicating dates of inspection, inspector's name, and conditions observed. These records shall be made available to the Department upon request. Failure to maintain or submit records upon request shall be a violation of the conditions of this permit.

12. If the monitoring wells are damaged or are otherwise rendered inadequate for their intended purpose, the Administrator, Water Quality Management Element, shall be notified within five (5) days in writing indicating:

    (a) Which wells were damaged or rendered inadequate for their intended use;

    (b) The cause and extent of damage or the reason for the inadequacy;

    (c) If the sampling schedule as required in this permit will be violated or if the results of the sampling may reasonably become misleading;

    (d) The date that the well will again be operational. Damaged wells must be replaced or repaired within thirty (30) days after the damage has occurred. The wells must be sampled within five (5) days after they have been installed. A replacement well must meet the construction requirements established by the Department. A valid New Jersey well permit is required prior to the installation of the replacement well;

    (e) The next date that the well will be sampled;

    Failure to follow these procedures is a violation of this permit and may subject the permittee to the provisions of N.J.S.A. 58:10A-10.

13. The permittee shall sample a total of four (4) ground water monitoring wells according to the schedule below. All ground water elevations must be determined prior to evacuation and sampling of the wells. Sampling of the wells shall be

performed according to the methodology specified in Section 6.12 of the NJPDES regulations and the latest edition of the Department's Field Procedures Manual for Water Data Acquisition. The manual may be obtained by contacting the Office of Quality Assurance at (609) 292-0427. All samples must be analyzed by a New Jersey Certified laboratory.

TABLE 1. GROUND WATER MONITORING REQUIREMENTS AND LIMITATIONS

PARAMETER	STANDARD	SAMPLING MONTH	SAMPLE TYPE	REPORTING MONTH
Elevation of top of monitor well casing (to be determined once but reported as indicated)		JanAprJulOct	N/A	FebMayAugNov
Depth to Water Table from top of casing prior to sampling		JanAprJulOct	N/A	FebMayAugNov
Depth to Water Table from original ground level prior to sampling		JanAprJulOct	N/A	FebMayAugNov
Ammonia-Nitrogen	0.5 ppm	JanAprJulOct	grab *1	FebMayAugNov
Arsenic & Compounds	0.05 ppm	JanAprJulOct	grab	FebMayAugNov
Barium	1.0 ppm	JanAprJulOct	grab	FebMayAugNov
Cadmium	0.01 ppm	JanAprJulOct	grab	FebMayAugNov
Chloride	250 ppm	JanAprJulOct	grab	FebMayAugNov
Chromium (Hex.) & Compounds	0.05 ppm	JanAprJulOct	grab	FebMayAugNov
Copper	1.0 ppm	JanAprJulOct	grab	FebMayAugNov
Cyanide	0.2 ppm	JanAprJulOct	grab	FebMayAugNov
Fluoride	2.0 ppm	JanAprJulOct	grab	FebMayAugNov
Iron	0.3 ppm	JanAprJulOct	grab	FebMayAugNov
Lead & Compounds	0.05 ppm	JanAprJulOct	grab	FebMayAugNov
Manganese	0.05 ppm	JanAprJulOct	grab	FebMayAugNov
Mercury & Compounds	0.002 ppm	JanAprJulOct	grab	FebMayAugNov
Nitrate Nitrogen	10.0 ppm	JanAprJulOct	grab	FebMayAugNov

pH	5-9	SU	JanAprJulOct	grab	FebMayAugNov
Phosphate, Total	---	ppm	JanAprJulOct	grab	FebMayAugNov
Selenium & Compounds	0.01	ppm	JanAprJulOct	grab	FebMayAugNov
Silver & Compounds	0.05	ppm	JanAprJulOct	grab	FebMayAugNov
Sulfate	250	ppm	JanAprJulOct	grab	FebMayAugNov
Total Dissolved Solids (TDS)	500	ppm	JanAprJulOct	grab	FebMayAugNov
Total Volatile Organics by GC/MS	*2	ppb	Apr Oct	grab	FebMayAugNov
Total Xylenes, ppb	*3	ppb	Apr Oct	grab	FebMayAugNov
Zinc & Compounds	5	ppm	JanAprJulOct	grab	FebMayAugNov

NOTES:

*1

"Grab" means an individual sample of at least 100 milliliters collected over a period not exceeding 15 minutes.

*2

A. Volatile Organic Toxic Pollutants as defined in N.J.A.C. 7:14A-1.1 et. seq., Appendix B can be reasonably divided into two classes; (A) carcinogens and (B) non-carcinogens.

i. Any chemical demonstrated to be carcinogenic to humans or experimental animals in a test peer-reviewed by either the National Toxicology Program of the U.S. Department of Health and Human Services or the International Agency for Research on Cancer will be considered to be a carcinogen (NJDEP Group A).

ii. Chemicals which do not meet the criteria for placement in NJDEP Group A will be placed in NJDEP Group B. NJDEP Group B is further divided into Group B-1, chemicals for which no State or Federal maximum contaminant level (MCL) exists, and NJDEP Group B-2, chemicals for which a State or Federal MCL exists. Where both a State and Federal MCL exists, the more stringent shall apply. If any applicable State or Federal standard, limitation or prohibition is more stringent than any limitation on the

pollutant then the State or Federal MCL, the more stringent shall apply. Chemicals in NJDEP Group B-1 which do not currently meet the criteria for placement in NJDEP Group B-2 shall be transferred to NJDEP Group B-2 if they meet the criteria for placement in NJDEP Group B-2 in the future. Chemicals which do not currently meet the criteria for placement in NJDEP Group A will be placed in NJDEP Group B-1 or NJDEP Group B-2 and shall be transferred to NJDEP Group A if they meet the criteria for placement in NJDEP Group A in the future.

Currently, based upon scientific consensus, the following shall comprise NJDEP Group A and NJDEP Groups B-1 and B-2:

NJDEP Group A	NJDEP Group B-1
acrylonitrile	acrolein
benzene	bromoform
carbon tetrachloride	chlorobenzene
chloroform	chlorodibromomethane
1,2-dichloroethane	chloroethane
1,1-dichloroethylene	2-chloroethylvinyl ether
methylene chloride	dichorobromomethane
1,1,2,2-tetrachloroethane	1,1-dichloroethane
tetrachloroethylene	1,2-dichloropropane
trichloroethylene	1,3-dichloropropylene
vinyl chloride	ethylbenzene
1,1,2-trichloroethane	methyl bromide
	methyl chloride
	toluene
	1,2-trans-dichloroethylene

NJDEP Group B-2	MCL* (ppb)
1,1,1-trichloroethane	200

*EPA Proposed

B. Chemical compounds classified in NJDEP Group A are carcinogens and pose some level of risk even at low doses.

C. 40 CRF Part 136-Method 624 shall be used to identify and monitor for the volatile organic compounds identified in Appendix B of the NJPDES Regulations for the initial round of sampling. Included in this analysis shall be the identification of 15 unknown peaks. Thereafter, 40 CFR Part 136-Methods 601 and 602 may be used to identify and monitor for volatile organic compounds unless permittee is directed by the Department to use Method 624.

Corrective Action Criteria

A. The corrective action criteria for ground water of 5 parts per billion (ppb) shall apply to individual chemical compounds classified in NJDEP Group A. Hence, the ambient concentration of any compound in NJDEP Group A shall not exceed 5 parts per billion in ground water.

B. The corrective action criteria for ground water of 50 parts per billion total Volatile Organic Toxic Pollutants shall apply to the sum of all compounds listed in NJDEP Group A and NJDEP Group B-1. Hence, the ambient concentration of the sum of all compounds listed in NJDEP Groups A and B-1 shall not exceed 50 parts per billion in ground water.

C. The corrective action criteria for ground water for the compounds listed in NJDEP Group B-2 shall be equal to or less than their individual State or Federal MCL, the more stringent shall apply. Hence, the ambient concentration of any compound in NJDEP Group B-2 shall not exceed its MCL in ground water.

*3

40 CRF Part 136-Method 602 shall be used to identify and monitor for total xylene. Xylene shall be considered a Group B-1 compound as described in Note *2. The corrective action criteria as described in Note *2 shall include total xylene as a Group B-1 volatile organic chemical.

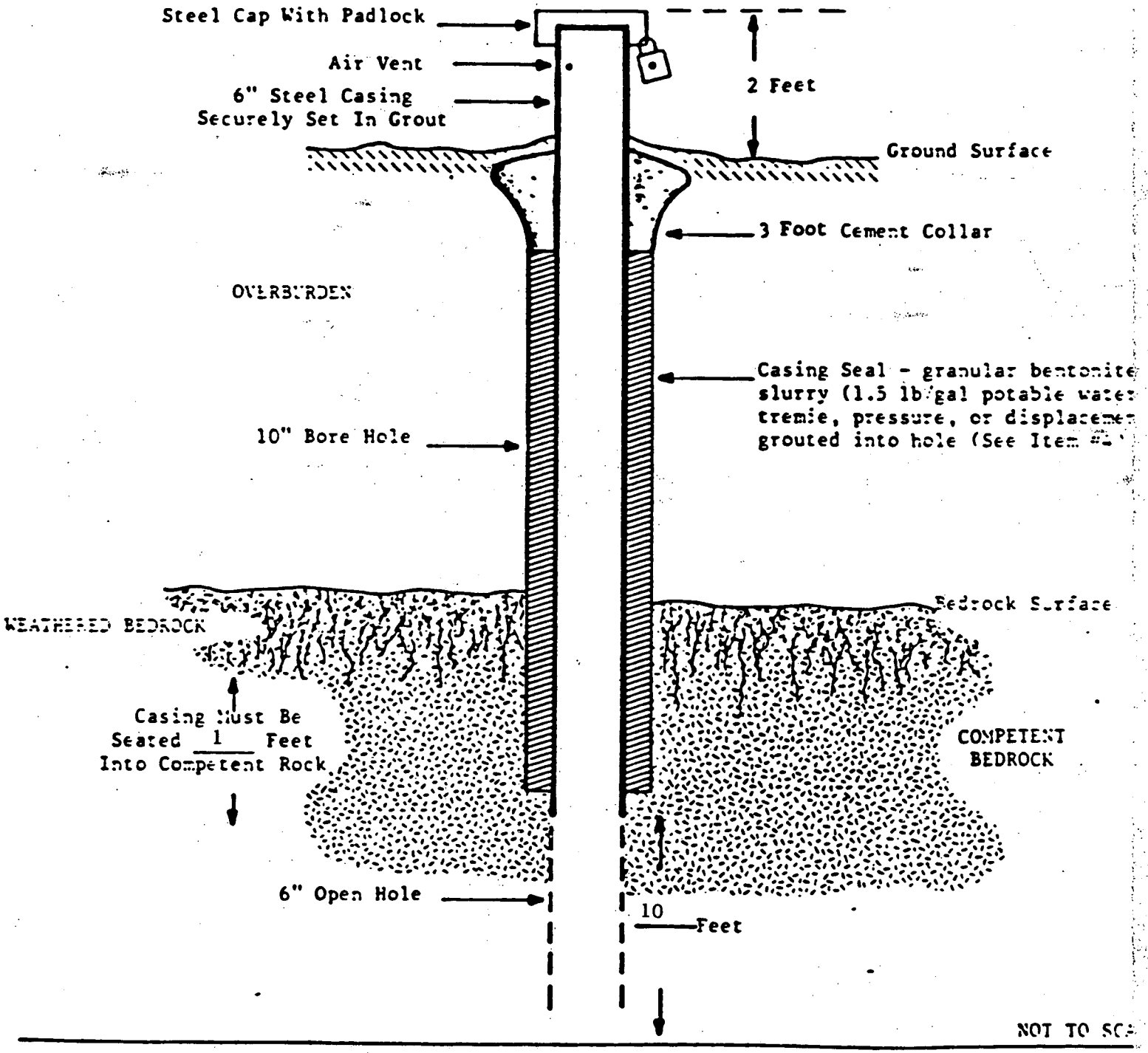
New Jersey Department of Environmental Protection
Rock Monitor Well Specifications*

Site Name: Apex Facility

Attachment 1

Location: Edison Road, New Village

Date: April 1, 1988



REQUIREMENTS:

1. Notification to the NJDEP is required two (2) weeks prior to drilling.
2. State well permits are required for each monitor well constructed by the driller. Report "use of well" on well permit application. Permit number must be permanently affixed to each monitor well.

3. Oversize borehole, minimum four (4) inches greater than casing diameter drilled through overburden with casing sealed ten (10) feet into competent rock unless shown otherwise above.
4. Approved high grade, sodium base, well-sealant type, granular bentonite must be used to seal casing. Casing sealant and drilling fluids must be mixed with potable water.
5. Well must be developed upon completion for a minimum of one (1) hour or to yield a turbid-free discharge.
6. The driller must maintain an accurate written log of all materials encountered in each hole, record all construction details for each well, and record the depth of major water bearing fracture zones. This information must be submitted to the Office of Water Allocation as required by N.J.S.A. 58:4A.
7. Cement collar must be installed a minimum of one (1) hour after casing seal has been emplaced.
8. Locking caps must be provided to secure each well.
9. Top of each well casing (excluding cap) must be surveyed to the nearest hundredth foot (0.01) by a licensed surveyor. The casing must be permanently marked at the point surveyed. The well should be numbered clearly on the casing. A detailed site map with well locations and casing elevations must be submitted to the Bureau of Ground Water Quality Management.
10. NOTICE IS HEREBY GIVEN OF THE FOLLOWING:

    a. Review by the Department of well locations and depths is limited solely to review for compliance with the law and Department rules;
    b. The Department does not review well locations or depths to ascertain the presence of, nor the potential for, damage to any pipeline, cable or other structures;
    c. The permittee (applicant) is solely responsible for safety and adequacy of the design and construction of well required to be constructed by the Department;
    d. The permittee (applicant) is solely responsible for any harm or damage to person or property which results from the construction or maintenance of any well; this provision is not intended to relieve third parties of any liabilities or responsibilities which are legally theirs.

ADDITIONAL REQUIREMENTS (IF CHECKED):

☐1. Split Spoon Samples (In Overburden) _____

☐2. Rock Core Samples _____

☐3. Dedicated Bailer (Sampler) In Well(s) _____

☒4. Borehole ~~Geophysical~~ Log(s) lithology description

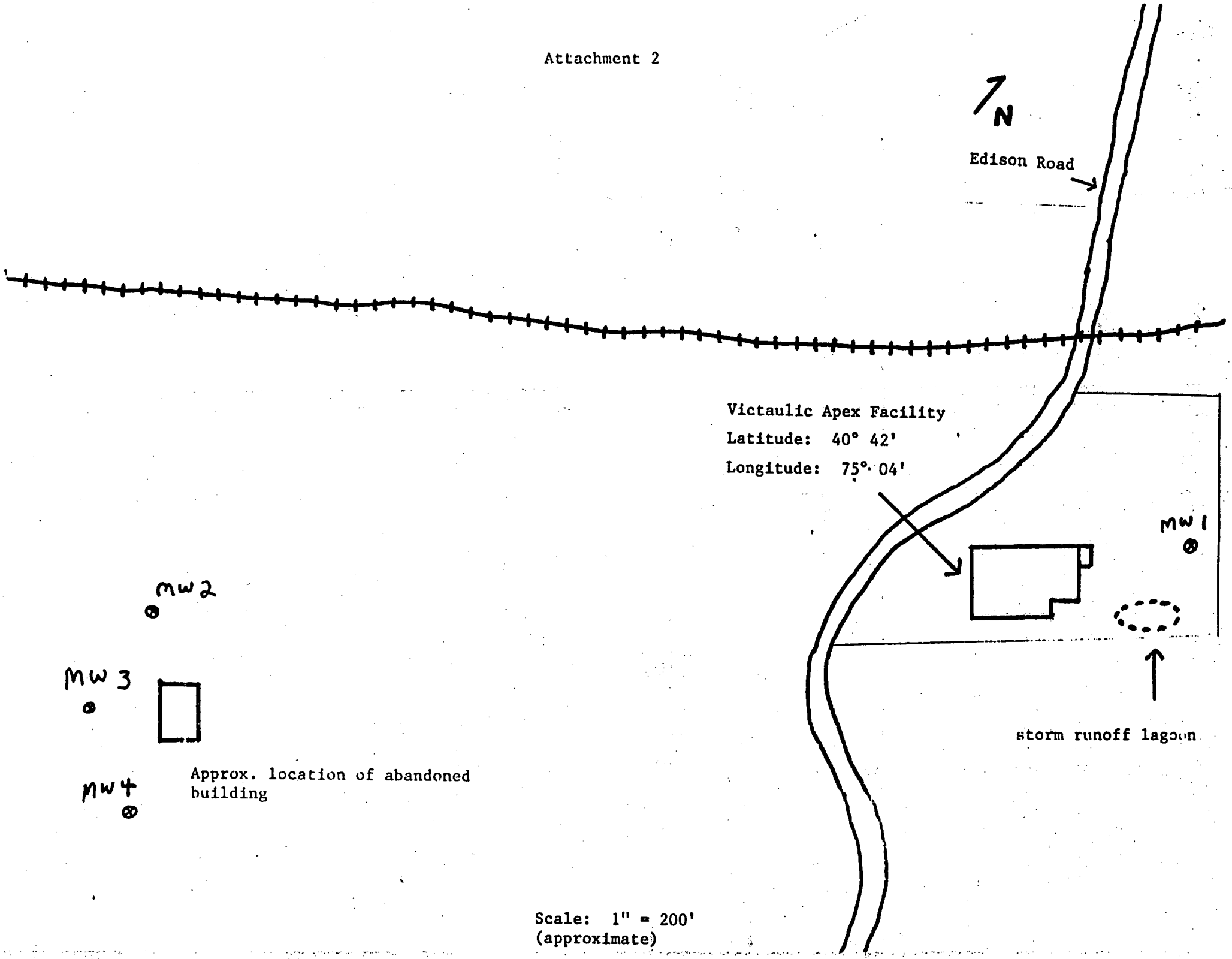
☐5. Other _____

_____

* OTHER DRILLING METHODS, MATERIALS, DESIGNS AND CASING DIAMETERS MAY BE USED WITH PRIOR APPROVAL BY NJDEP.

Rev. 9/83

Attachment 2



Form T-VWX-014
5/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

MONITORING REPORT — TRANSMITTAL SHEET

NJPDES NO.	REPORTING PERIOD MO. YR.		MO. YR.
0 0 9 9 7 9 1		THRU	

PERMITTEE: Name Victaulic Company of America

Address Box 31; 4901 Kesslerville Road

Easton, PA 18042

FACILITY: Name Apex Facility

Address Edison Road

New Village, NJ (County) Warren

Telephone (201) 859-0085

FORMS ATTACHED *(Indicate Quantity of Each)*

SLUDGE REPORTS - SANITARY

[ ] T-VWX-007 [ ] T-VWX-008 [ ] T-VWX-009

SLUDGE REPORTS - INDUSTRIAL

[ ] T-VWX-010A [ ] T-VWX-010B

WASTEWATER REPORTS

[1] T-VWX-011 [1] T-VWX-012 013A [2] T-VWX-013

GROUNDWATER REPORTS

[4] VWX-015(A,B) [4*] VWX-016 [ ] VWX-017

NPDES DISCHARGE MONITORING REPORT

[ ] EPA FORM 3320-1

* May & Nov

OPERATING EXCEPTIONS

	YES	NO
DYE TESTING	☐	☐
TEMPORARY BYPASSING	☐	☐
DISINFECTION INTERRUPTION	☐	☐
MONITORING MALFUNCTIONS	☐	☐
UNITS OUT OF OPERATION	☐	☐
OTHER	☐	☐

(Detail any "Yes" on reverse side in appropriate space.)

NOTE: The "Hours Attended at Plant" on the reverse of this sheet must also be completed.

AUTHENTICATION - I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

LICENSED OPERATOR

Name *(Printed)* _____

Grade & Registry No. _____

Signature _____

Date _____

PRINCIPAL EXECUTIVE OFFICER or
DULY AUTHORIZED REPRESENTATIVE

Name *(Printed)* _____

Title *(Printed)* _____

Signature _____

Date _____

OPERATING EXCEPTIONS DETAILED

HOURS ATTENDED AT PLANT

Month ☐☐ Year ☐☐

Day of Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Licensed Operator																
Others																
Day of Month	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Licensed Operator																
Others																

m T-VWX-011
2

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

FACILITY WASTEWATER REPORT

NJPDES NO. 0 1 0 9 9 7 9 1 (1–7)

REPORTING PERIOD MO. YR. (11–14) THRU MO. YR. (15–18)

1 (19)

NJDEP USE (20)

DISCHARGE ID (PIPE) (8–10)	DISCHARGE FLOWRATE MILLION GALLONS PER DAY AVERAGE (21–28)	DISCHARGE FLOWRATE MILLION GALLONS PER DAY MAXIMUM (29–36)	No. of Days Exceeding Design Capacity (37–39)	EFFLUENT pH MIN. (40–42)	EFFLUENT pH MAX. (43–45)	EFFLUENT TEMPERATURE °C AVG. (46–48)	EFFLUENT TEMPERATURE °C MAX. (49–51)	THERMAL LOADING MILLION BTU PER DAY AVERAGE (52–60)	THERMAL LOADING MILLION BTU PER DAY MAXIMUM (61–69)	Upstream Temp. °C. AVG. (70–72)
I 0 1										
I 0 2										

INDIRECT DISCHARGER

RECEIVING POTW: NJPDES NO. _____

NAME _____

MUNICIPALITY _____

COUNTY _____

DISCHARGER _____

NOTE:

1. *Flowrate is mandatory for all discharges.*
2. *pH and Effluent Temperature to be reported as required by permit for all discharges.*
3. *Thermal Parameters (Effluent Temperature, Thermal Loading, & Upstream Temp.) are mandatory for Thermal Discharges.*

Form T-VWX-013
Rev. 3/82

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

INDUSTRIAL FACILITY WASTEWATER REPORT

NJPDES NO.	DISCHARGE ID.	REPORTING PERIOD MO. YR.		NJDEP USE	NEW JERSEY LABORATORY CERT. NO.
0 0 9 9 7 9 1 (1–7)	I 0 1 (8–10)	(11–14)	THRU (15–18)	(20)	(21–25)

		PARAMETER DESCRIPTION	INFLUENT CONC. MILLIGRAMS PER LITER AVERAGE (28–35)	EFFLUENT CONC. MILLIGRAMS PER LITER AVERAGE (36–42)	EFFLUENT CONC. MILLIGRAMS PER LITER MAXIMUM (43–49)	EFFLUENT LOADING KILOGRAMS PER DAY AVERAGE (50–56)	EFFLUENT LOADING KILOGRAMS PER DAY MAXIMUM (57–63)
AS REQUIRED BY PERMIT	1	A	BOD_5				
	1	B	COD				
	1	C	Total Dissolved Solids				
	1	D	Total Suspended Solids				
	1	E	~~Chloride~~ Chloride				
	1	F	Total Organic Carbon				
	1	G	Total Dissolved Carbon				
	1	H	Total Nitrogen				
	1	I	Ammonia Nitrogen				
	1	J	Nitrate Nitrogen				
	1	K	Total Phosphorus				
	1	L	Oil & Grease				
	1	M	Petroleum Hydrocarbons				
	1	N	Aromatic Hydrocarbons				
	1	O	Chlorinated Hydrocarbons				
	1	P	Phenols (Total)				
	1	Q	Cyanide (Total)				
	1	R	Aluminum				
	1	S	Arsenic				
	1	T	Cadmium				
	1	U	Chromium (Total)				
	1	V	Cobalt				
	1	W	Copper				
	1	X	Lead				
	1	Y	Mercury				
	1	Z	Nickel				
	2	A	Silver				
	2	B	Zinc				
			Fluoride				
			Phosphate				
			Sulfate				

DISCHARGER NAME _____ LAB NAME _____

Form T-VWX-013
Rev. 3/82

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

INDUSTRIAL FACILITY WASTEWATER REPORT

NJPDES NO. 0 0 9 9 7 9 1 (1–7)

DISCHARGE ID. I 0 2 (8–10)

REPORTING PERIOD MO. YR. (11–14) THRU MO. YR. (15–18)

3 (19)

NJDEP USE (20)

NEW JERSEY LABORATORY CERT. NO. (21–25)

AS REQUIRED BY PERMIT

26	27	PARAMETER DESCRIPTION	INFLUENT CONC. MILLIGRAMS PER LITER AVERAGE (28–35)	EFFLUENT CONC. MILLIGRAMS PER LITER AVERAGE (36–42)	EFFLUENT CONC. MILLIGRAMS PER LITER MAXIMUM (43–49)	EFFLUENT LOADING KILOGRAMS PER DAY AVERAGE (50–56)	EFFLUENT LOADING KILOGRAMS PER DAY MAXIMUM (57–63)
1	A	BOD_5					
1	B	COD					
1	C	Total Dissolved Solids					
1	D	Total Suspended Solids					
1	E	Chlorine					
1	F	Total Organic Carbon					
1	G	Total Dissolved Carbon					
1	H	Total Nitrogen					
1	I	Ammonia Nitrogen					
1	J	Nitrate Nitrogen					
1	K	Total Phosphorus					
1	L	Oil & Grease					
1	M	Petroleum Hydrocarbons					
1	N	Aromatic Hydrocarbons					
1	O	Chlorinated Hydrocarbons					
1	P	Phenols (Total)					
1	Q	Cyanide (Total)					
1	R	Aluminum					
1	S	Arsenic					
1	T	Cadmium					
1	U	Chromium (Total)					
1	V	Cobalt					
1	W	Copper					
1	X	Lead					
1	Y	Mercury					
1	Z	Nickel					
2	A	Silver					
2	B	Zinc					

DISCHARGER NAME _____ LAB NAME _____

Form T-VWX-013
5/82

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

INDUSTRIAL FACILITY WASTEWATER REPORT

NJPDES NO. 1 0 1 0 1 9 1 9 1 7 1 9 1 1 (1–7) - DISCHARGE ID. I 0 2 (8–10)

REPORTING PERIOD MO. YR. (11–14) THRU MO. YR. (15–18)

3 (19)

NJDEP USE (20)

NEW JERSEY LABORATORY CERT. NO. (21–25)

AS REQUIRED BY PERMIT

(26)	(27)	PARAMETER DESCRIPTION	INFLUENT CONC. MILLIGRAMS PER LITER AVERAGE (28–35)	EFFLUENT CONC. MILLIGRAMS PER LITER AVERAGE (36–42)	EFFLUENT CONC. MILLIGRAMS PER LITER MAXIMUM (43–49)	EFFLUENT LOADING KILOGRAMS PER DAY AVERAGE (50–56)	EFFLUENT LOADING KILOGRAMS PER DAY MAXIMUM (57–63)
		Barium					
		Chloride					
		Manganese					
		Phosphate					
		Selenium					
		Sulfate					
		Total Xylene					

DISCHARGER NAME _____ LAB NAME _____

Volatile Organics

Form T-VWX-013 A
5/82

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

INDUSTRIAL FACILITY WASTEWATER REPORT

NJPDES NO. 0 1 0 1 9 1 9 1 7 1 9 1 1 (1–7) - DISCHARGE ID. I 0 2 (8–10) REPORTING PERIOD mo. yr. (11–14) THRU mo. yr. (15–18) 3 (19) NJDEP USE (20) NEW JERSEY LABORATORY CERT. NO. (21–25)

AS REQUIRED BY PERMIT

	PARAMETER DESCRIPTION	INFLUENT CONC. MILLIGRAMS PER LITER AVERAGE (28–35)	EFFLUENT CONC. MILLIGRAMS PER LITER AVERAGE (36–42)	EFFLUENT CONC. MILLIGRAMS PER LITER MAXIMUM (43–49)	EFFLUENT LOADING KILOGRAMS PER DAY AVERAGE (50–56)	EFFLUENT LOADING KILOGRAMS PER DAY MAXIMUM (57–63)
26 27	Acrylonitrile					
	Benzene					
	Bromoform					
	Carbon Tetrachloride					
	Chlorobenzene					
	Chlorodibromomethane					
	Chloroform					
	1, 1 - Dichloroethane					
	1, 2 - Dichloroethane					
	1, 1 - Dichloroethylene					
	1, 2 - Dichloropropane					
	Ethylbenzene					
	Methylene Chloride					
	1, 1, 2, 2 - Tetrachloroethane					
	Tetrachloroethylene					
	Toluene					
	1, 1, 1 - Trichloroethane					
	1, 1, 2 - Trichloroethane					
	Trichloroethylene					
	Vinyl Chloride					
	Acrolein					
	Chloroetnane					
	2 - Chloroethylvinyl Ether					
	Dichlorobromomethane					
	1, 3 - Dichloropropylene					
	Methyl Bromide					
	Methyl Chloride					
	1, 2 - trans - Dichloroethylene					
	1, 2 Dichlorobenzene					
	1, 3 Dichlorobenzene					
	1, 4 Dichlorobenzene					

DISCHARGER NAME _____ LAB NAME _____

Form VWX-015 A
4/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Apex Facility | SW ID NO.:

LAB NAME:

NJPDES NO.: R (1) NJ 0 0 9 9 7 9 1 (2–8)

WELL PERMIT NO.: (9–16)

SAMPLE DATE YR. MO. DAY: (17–22)

NJ LAB CERT. NO.: (23–27)

WQM USE: (28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM MO. YR. TO MO. YR.

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS												ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.					
												Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01			
												Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01			
												Depth to water table from top of casing prior to sampling with cap off	feet: to nearest .01	82546		
												Depth to water table from original ground level prior to sampling	feet: to nearest .01	72019		
												Arsenic, Dissolved	UG/L as As	01000		
												Barium, Dissolved	UG/L as Ba	01005		
												Biochemical Oxygen Demand - 5 Day	MG/L	00310		
												Cadmium, Dissolved	UG/L as Cd	01025		
												Chloride, Dissolved	UG/L as Cl	82295		
												Chromium, Dissolved	UG/L as Cr	01030		
												Chromium, Dissolved, Hexavalent	UG/L as Cr	01220		
												Chemical Oxygen Demand (COD), Dissolved	MG/L	00341		
												Coliform Group	N/100 ML	74056		
												Color	Pt - Co	00080		
												Copper, Dissolved	UG/L as Cu	01040		
												Cyanide, Total	MG/L as CN	00720		
												Endrin, Total	UG/L	39390		
												Fluoride, Dissolved	MG/L as F	00950		
												Gross Alpha, Dissolved	Pc/L	01503		
												Gross Beta, Dissolved	Pc/L	03503		
												Hardness, Total as $CaCO_3$	MG/L	00900		
												Iron, Dissolved	UG/L as Fe	01046		
												Lead, Dissolved	UG/L as Pb	01049		
												Lindane, Total	UG/L	39782		
												Manganese, Dissolved	UG/L	01056		
												Mercury, Dissolved	UG/L	71890		

VALUE CODING RULES AND
REMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

VALUE CODING RULES

- NUMBERS SHALL BE CODED IN CONTIGUOUS BLOCKS *(NO EMBEDDED BLANKS)* WITH ONE DIGIT PER BLOCK.
- THE DECIMAL POINT MUST BE CODED AS PART OF EACH VALUE. THE DECIMAL POINT SHALL OCCUPY ONE BLOCK BY ITSELF.
- THE UNITS DETAILED FOR EACH PARAMETER NUMBER MUST BE UTILIZED. SUBSTITUTION OF UNITS IS NOT ALLOWED. THE PERSON(S) PREPARING THE REPORT ARE RESPONSIBLE FOR ALL UNIT CONVERSIONS WHERE REQUIRED *(E.G. A LABORATORY HAS REPORTED IN MICROGRAMS PER LITER BUT THE PARAMETER ON THE FORM REQUIRES PARTS PER MILLION).*
- FOR EXTRAORDINARY CIRCUMSTANCES WHERE COMPLIANCE WITH THE ABOVE IS IMPOSSIBLE, BRIEFLY DETAIL THE PARTICULARS IN WRITING. INCLUDE A CONTACT PERSON'S NAME AND TELEPHONE NUMBER. A DIVISION REPRESENTATIVE WILL TELEPHONE TO DISCUSS THE PROBLEM AND EFFECT A SOLUTION.

REMARK CODES

B	RESULTS ARE BASED UPON COLONY COUNTS OUTSIDE THE ACCEPTABLE RANGE.
C	CALCULATED
J	ESTIMATED VALUE, VALUE IS NOT ACCURATE. USE IF SAMPLE EXCEEDED HOLDING TIME.
K	ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN. USE IF ANALYSIS IS NEGATIVE, BUT WITH THE LIMIT OF DETECTABILITY AS THE VALUE.
L	ACTUAL VALUE IS KNOWN TO BE GREATER THAN THE VALUE GIVEN.
O	SAMPLED BUT ANALYSIS LOST.
U	MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. CODE "K" WHERE LIMIT OF DETECTABILITY EXISTS. CODE "U" WHERE NO LIMIT OF DETECTABILITY EXISTS.

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Apex Facility | SW ID NO.:

LAB NAME:

NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE (YR. MO. DAY)	NJ LAB CERT. NO.	WQM USE
S NJ0099791 (cols 1, 2–8)	(9–16)	(17–22)	(23–27)	(28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM MO. YR. TO MO. YR.

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS (Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.)	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	Methoxychlor, Total	UG/L	39480		
	Methylene Blue Active Substances	MG/L	38260		
	Nitrogen, Ammonia, Dissolved $NH_3 + NH_4$ as N	MG/L as N	00608		
	Nitrogen, Nitrate, Dissolved	MG/L as N	00618		
	Odor	T.O.N.	00085		
	pH	Standard Units	00400		
	Phenols, Total Recoverable	UG/L	32730		
	Radium 226, Dissolved	Pc/L	09503		
	Radium 228, Dissolved	Pc/L	81366		
	Selenium, Dissolved	UG/L	01145		
	Silver, Dissolved	UG/L	01075		
	Sodium, Dissolved	MG/L	00930		
	Sulfate, Dissolved (as SO_4)	MG/L	00946		
	Total Dissolved Solids (TDS)	PPM	70300		
	Total Organic Carbon (TOC)	PPM	00680		
	Total Organic Halogen (TOX)	UG/L	70353		
	Toxaphene	UG/L	39400		
	Turbidity	NTU	00076		
	Zinc, Dissolved	UG/L	01090		
	2, 4–D, Total	UG/L	39370		
	2, 4, 5–TP, Total	UG/L	39045		
	Phosphate	MG/L			
	Total Xylene	UG/L			

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

VALUE CODING RULES AND
REMARK CODES ON REVERSE

VALUE CODING RULES

- NUMBERS SHALL BE CODED IN CONTIGUOUS BLOCKS *(NO EMBEDDED BLANKS)* WITH ONE DIGIT PER BLOCK.
- THE DECIMAL POINT MUST BE CODED AS PART OF EACH VALUE. THE DECIMAL POINT SHALL OCCUPY ONE BLOCK BY ITSELF.
- THE UNITS DETAILED FOR EACH PARAMETER NUMBER MUST BE UTILIZED. SUBSTITUTION OF UNITS IS NOT ALLOWED. THE PERSON(S) PREPARING THE REPORT ARE RESPONSIBLE FOR ALL UNIT CONVERSIONS WHERE REQUIRED *(E.G. A LABORATORY HAS REPORTED IN MICROGRAMS PER LITER BUT THE PARAMETER ON THE FORM REQUIRES PARTS PER MILLION).*
- FOR EXTRAORDINARY CIRCUMSTANCES WHERE COMPLIANCE WITH THE ABOVE IS IMPOSSIBLE, BRIEFLY DETAIL THE PARTICULARS IN WRITING. INCLUDE A CONTACT PERSON'S NAME AND TELEPHONE NUMBER. A DIVISION REPRESENTATIVE WILL TELEPHONE TO DISCUSS THE PROBLEM AND EFFECT A SOLUTION.

REMARK CODES

B	RESULTS ARE BASED UPON COLONY COUNTS OUTSIDE THE ACCEPTABLE RANGE.
C	CALCULATED
J	ESTIMATED VALUE, VALUE IS NOT ACCURATE. USE IF SAMPLE EXCEEDED HOLDING TIME.
K	ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN. USE IF ANALYSIS IS NEGATIVE, BUT WITH THE LIMIT OF DETECTABILITY AS THE VALUE.
L	ACTUAL VALUE IS KNOWN TO BE GREATER THAN THE VALUE GIVEN.
O	SAMPLED BUT ANALYSIS LOST.
U	MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. CODE "K" WHERE LIMIT OF DETECTABILITY EXISTS. CODE "U" WHERE NO LIMIT OF DETECTABILITY EXISTS.

Form VWX-016
4/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – VOLATILE ORGANICS REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME	SW ID NO.
Apex Facility	
LAB NAME	

T (1) NJ 0 0 9 9 7 9 1 (2–8) NJPDES NO. | WELL PERMIT NO. (9–16) | SAMPLE DATE YR. MO. DAY (17–22) | NJ LAB CERT. NO. (23–27) | WQM USE (28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM MO. YR. TO MO. YR.

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS												ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.					
												Acrylonitrile	UG/L	34215		
												Benzene	UG/L	34030		
												Bromoform	UG/L	32104		
												Carbon Tetrachloride	UG/L	32102		
												Chlorobenzene	UG/L	34301		
												Chlorodibromoethane	UG/L	34306		
												Chloroform	UG/L	32106		
												1, 1 - Dichloroethane	UG/L	34496		
												1, 2 - Dichloroethane	UG/L	34531		
												1, 1 - Dichloroethylene	UG/L	34501		
												1, 2 - Dichloropropane	UG/L	34541		
												Ethylbenzene	UG/L	34371		
												Methylene Chloride	UG/L	34423		
												1, 1, 2, 2 - Tetrachloroethane	UG/L	34516		
												Tetrachloroethylene	UG/L	34475		
												Toluene	UG/L	34012		
												1, 1, 1 - Trichloroethane	UG/L	34506		
												1, 1, 2 - Trichloroethane	UG/L	34511		
												Trichloroethylene	UG/L	39180		
												Vinyl Chloride	UG/L	39175		
												Acrolein	UG/L	34210		
												Chloroethane	UG/L	34311		
												2 - Chloroethylvinyl Ether	UG/L	34576		
												Dichlorobromomethane	UG/L	32105		
												1, 3 - Dichloropropylene	UG/L	34699		
												Methyl Bromide	UG/L	34413		
												Methyl Chloride	UG/L	34418		
												1, 2 - trans - Dichloroethylene	UG/L	34546		
												1, 2 Dichlorobenzene	UG/L	34536		
												1, 3 Dichlorobenzene	UG/L	34566		
												1, 4 Dichlorobenzene	UG/L	34571		

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

VALUE CODING RULES AND
REMARK CODES ON REVERSE

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER

MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION

(One form must be completed for each well)

Name of Permittee: _____

Name of Facility: _____

Location: _____

_____

NJPDES Permit No: NJ _____

ENGINEER'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-984-6831): This number must be permanently affixed to the well casing. _____

Owner's Well Number (As shown on the application or plans): _____

Well Completion Date: _____

Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot): _____

Total Depth of Well (one-tenth of a foot): _____

Depth to Top of Screen From Top of Casing (one-tenth of a foot): _____

Screen Length (feet): _____

Screen or Slot Size: _____

Screen Material: _____

Casing Material: (PVC, Steel or Other-Specify): _____

Casing Diameter(Inches): _____

Static Water Level From Top of Casing at The Time of Certification(one-hundredth of a foot): _____

Yield (Gallons per Minute): _____

Length or time Well Pumped or Bailed: _____ Hours _____ Minutes

Lithologic Log: ATTACH ON BACK

AUTHENTICATION:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitted false information including the possibility of fine and imprisonment.

_____

Professional Engineer's Signature

_____

Professional Engineer's Name
(Please type or print)

SEAL

_____

Professional Engineer's License #

ALL EXISTING AND PROPOSED GROUND WATER MONITORING WELLS SHALL MEET THE FOLLOWING REQUIREMENTS:

A Ground Water Monitoring Well Certification Form (A and B) must be completed for each existing and proposed ground water monitoring well. Information for each well must be shown on a separate well completion form. The form entitled "Ground Water Monitoring Well Certification, Form A - As Built Construction Certification", must be signed by one of the following: a New Jersey licensed Professional Engineer; a licensed New Jersey Well Driller; a geologist certified by any State; a geologist certified by the American Institute of Professional Geologists; an individual certified by the American Institute of Hydrology; any other person approved by the Department. Form B, "Location Certification", must be signed and sealed by a Licensed New Jersey Land Surveyor. For an existing well, if information required on the well completion form cannot be determined or if the well is not adequately constructed to meet the requirements of the NJPDES Permit, the Department reserves the right to require additional replacement well(s) to be drilled. Criteria to be used by the Department in judging the adequacy of a well will be related to the ability of the well to provide a representative ground water sample at any time of the year as specified within the NJPDES Permit. Any replacement well must be installed within a ten (10) foot radius of the specified sampling location. Inadequate or damaged wells must be properly sealed as per N.J.A.C. 58:4A-4.1. Instructions regarding sealing may be obtained by contacting the Water Allocation Office at (609) 984-6831.

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION

Name of Permittee: _____
Name of Facility: _____
Location: _____

NJPDES Number: NJ _____

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section, 609-984-6831): _ _-_ _ _ _ _-_
This number must be permanently affixed to the well casing.

Longitude (one-tenth of a second): West _____
Latitude (one-tenth of a second): North _____
Elevation of Top of Casing (cap off) (one-hundredth of a foot): _____
Owners Well Number (As shown on the application or plans): _____

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

_____
PROFESSIONAL LAND SURVEYOR'S SIGNATURE

_____ SEAL
PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

_____
PROFESSIONAL LAND SURVEYOR'S LICENSE #

The Department reserves the right in cases of violation of permit specified ground water limits or Ground Water Quality Standards (N.J.A.C. 7:9-6.1 et seq.) to require that wells be resurveyed to an accuracy of one-hundredth of a second latitude and longitude. This shall not be considered to require a major modification of the NJPDES permit.

Special Conditions for Victaulic Company of America and Franklin Industrial Park

1. If, sixty days from the Effective Date of this permit, Victaulic Company of America ("Victaulic") continues to discharge waste water onto property owned by Franklin Industrial Park, then Victaulic shall obtain from Franklin Industrial Park an easement to continue the discharge. Such an easement must be obtained within 90 days of the Effective Date of Permit. If the discharge of waste water is diverted, then the permittees shall submit a plan to the Bureau of Ground Water Quality Management for review and approval. Said plan shall include the new disposal site, the path by the waste water will travel to the new site, and plans for closure of the former discharge site. If the plan involves the installation of a water treatment system, then the permittees shall apply to the Bureau of Industrial Waste Management [(609) 292-0407] for a Treatment Works Approval. The Department may then modify this permit to accommodate closure of the former discharge site and/or the addition of a new regulated unit.

2. Within sixty (60) days of the effective date of this permit, Victaulic Company of America shall submit a list of all the parameters for which they have analyzed the waste water in the past and a copy of the most recent of those analyses.

3. If the discharge monitoring limits cited in Part III of this permit are exceeded, the Department may, at its discretion, modify this permit to include the installation of water pretreatment facilities, additional ground water monitoring wells, and/or a corrective action program.

4. If the results of the discharge and ground water monitoring are below the cited limits for one year, the Department will consider a petition from the permittees to relax the monitoring requirements.

APPENDIX III

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF HAZARDOUS WASTE
GENERATOR'S ANNUAL REPORT
FOR YEAR OF 1981

2-15-82

1. GENERATOR'S NAME VICTAULIC COMPANY OF AMERICA 2. EPA ID NO. NJD 000499293

3. ADDRESS EDISON ROAD, NEW VILLAGE BOX 107 STEWARTSVILLE, NJ 08886

4. TRANSPORTER'S NAME MODERN TRANSPORTATION Co 5. EPA ID NO. NJD 000090950

6. ADDRESS 75 Jacobus Ave South Kearny N.J. 07032 (201-589-0277)

7. FACILITY'S NAME MODERN TRANSPORTATION Co 8. EPA ID NO. NJD 000090950

9. ADDRESS 75 Jacobus Ave South Kearny N.J. 07032

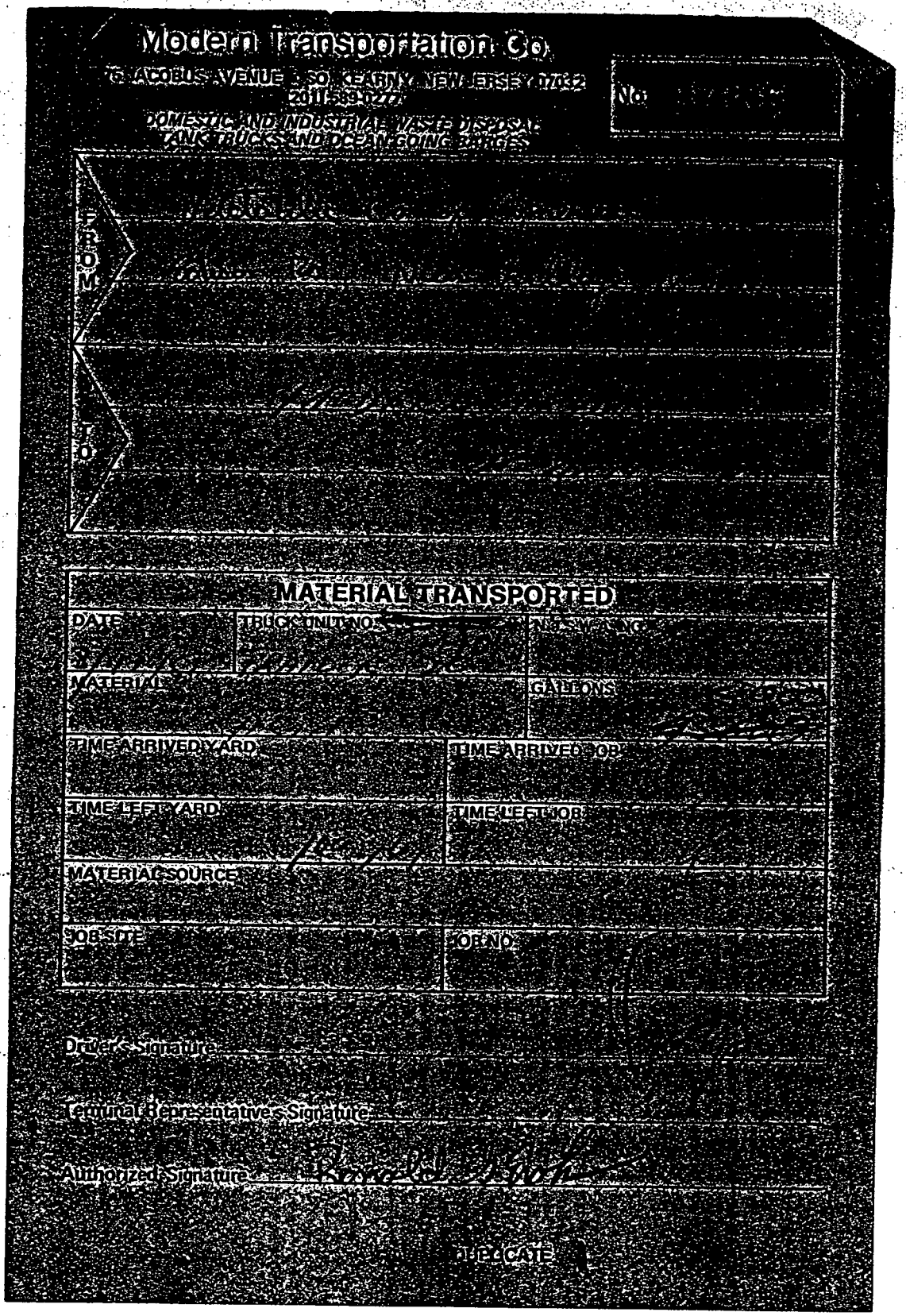
10. MANIFEST NO.		DESCRIPTION OF WASTE	DOT HAZ. CLASS	QUANTITY	UNITS	EPA WASTE TYPE	REJECT
000 8530	2/3/81	Sulphuric pickle acid	Corrosive	3100	G	K062	NO
00 14748	3/6/81	Sulphuric & hydrofluoric pickle acid	Corrosive	4700	G	K062	NO
00 34 943	4/16/81	Sulphuric pickle acid	Corrosive	4100	G	K062	NO
00 34 954	5/18/81	Sulphuric pickle acid	Corrosive	3950	G	K062	NO
00 84 955	7/10/81	Sulphuric & hydrofluoric pickle acid	Corrosive	4100	G	K062	NO
000 8531	8/12/81	Sulphuric & hydrofluoric pickle acid	Corrosive	5000	G	K062	NO

Carl J. Braun Plant Mgr.
201-859-0085

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF HAZARDOUS WASTE
GENERATOR'S ANNUAL REPORT
FOR YEAR OF 1981

1. GENERATOR'S NAME VICTAULIC COMPANY OF AMERICA 2. EPA ID NO. NJD 000499293
3. ADDRESS ~~EDISON ROAD, NEW VILLAGE~~ BOX 107 STEWARTSVILLE, NJ 08086
4. TRANSPORTER'S NAME WASTE CONVERSION INC 5. EPA ID NO. PAD085690592
6. ADDRESS 2869 SANDSTONE DRIVE HATFIELD PA 19440 (215-822-8996)
7. FACILITY'S NAME WASTE CONVERSION INC 8. EPA ID NO. PAD085690592
9. ADDRESS 2869 SANDSTONE DRIVE HATFIELD PA 19440

10. MANIFEST NO.		DESCRIPTION OF WASTE	DOT HAZ. CLASS	QUANTITY	UNITS	EPA WASTE TYPE	REJECT
PAA 3257769	9/26/81	Sulphuric pickle acid	Corrosive	5200	G	K062	NO
PAA 3259852	10/26/81	Sulphuric pickle acid	Corrosive	5800	G	K062	NO
PAA 4595172	11/20/81	Sulphuric & Muriatic pickle Acid	Corrosive	5000	G	K062	N
PAA 3919650	12/8/81	Sulphuric pickle acid	Corrosive	5800	G	K062	N



Modern Transportation Co.

6 ACOBUS AVENUE SO. KEARNY, NEW JERSEY 07032
201-589-0220

No.

DOMESTIC AND INDUSTRIAL WASTE DISPOSAL
TANK TRUCKS AND OCEAN GOING BARGES

FROM

TO

MATERIAL TRANSPORTED

DATE	TRUCK UNIT NO.	TRUCK LIC. NO.
MATERIAL		GALLONS
TIME ARRIVED YARD		TIME ARRIVED JOB
TIME LEFT YARD		TIME LEFT JOB
MATERIAL SOURCE		
JOB SITE		JOB NO.

Driver's Signature

Terminal Representative's Signature

Authorized Signature

DUPLICATE

...r sheet for instructions.
...TYPE all information.

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION

HAZARDOUS WASTE MANIFEST

...A:

DOCUMENT NO. NJ 0008531

GENERATOR NAME: Victaulic Company of America – Apex	PHONE (INCLUDE AREA CODE): 201-859-0085	EPA ID NO.: NJD000499293
ADDRESS (STREET - CITY - STATE - ZIP CODE): Edison Rd. New Village Box 107 Stewartsville, N.J. 08886		
TRANSPORTER NO. 1: Modern Transportation Co.	PHONE (INCLUDE AREA CODE): 201-859-0277	EPA ID NO.:
ADDRESS (STREET - CITY - STATE - ZIP CODE): 75 Jacobus Ave. So. Kearney N.J. 07032		
TRANSPORTER NO. 2	PHONE (INCLUDE AREA CODE):	EPA ID NO.:
ADDRESS (STREET - CITY - STATE - ZIP CODE):		
TREATMENT, STORAGE OR DISPOSAL (TSD) FACILITY: Modern Transportation Co.	PHONE (INCLUDE AREA CODE):	EPA ID NO.:
SITE ADDRESS (STREET - CITY - STATE - ZIP CODE): 75 Jacobus Ave So. Kearney N.J. 07032		

IF MORE THAN TWO TRANSPORTERS ARE TO BE UTILIZED, FILL OUT THE FOLLOWING AS APPROPRIATE
THIS FORM IS NO. _____ OF A TOTAL OF _____. THE FIRST MANIFEST DOCUMENT NO. IS NJ →

	PROPER US DOT SHIPPING NAME	US DOT HAZARD CLASS	UN NUMBER	FORM	NET QUANTITY	UNITS	CONTAINERS NO.	CONTAINERS TYPE	EPA HAZ CODE	EPA WASTE TYPE
1.	[illegible]									
2.	[illegible]									
3.		Corrosive material UN1760								
4.										
5.	RQ waste Sulphuric + hydrofluoric acid mixture	Corrosive Material	1786							
6.				1	5000	1	001	03	C	D002

SPECIAL HANDLING INSTRUCTIONS INCLUDING CONTAINER EXEMPTION (i.e. IDENTIFICATION OF ADDITIONAL WASTES INCLUDED IN SHIPMENT OF A NONHAZARDOUS NATURE WHICH DO NOT HAVE TO BE MANIFESTED)

GENERATOR'S CERTIFICATION: This is to certify that the above named materials are properly classified, described, marked and labelled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, U.S. EPA and the State. The wastes described above were consigned to the Transporter named. The Treatment, Storage or Disposal Facility can and will accept the shipment of hazardous waste, and has a valid permit to do so. I certify that the foregoing is true and correct to the best of my knowledge.

GENERATOR'S SIGNATURE: Ronald J. Eck	TITLE: asst. Pl. Mngr.	DATE SHIPPED: 08 (MO.) 12 (DAY) 81 (YR.)	EXPECTED ARRIVAL DATE: 08 (MO.) 12 (DAY) 81 (YR.)
TRANSPORTER NO. 1 SIGNATURE AND CERTIFICATION OF RECEIPT OF SHIPMENT: Jago	TRANSPORTER NO. 1 VEHICLE ID NO.: NJSMAS3560BE		DATE RECEIVED: 08 (MO.) 12 (DAY) 81 (YR.)

PART B.

TRANSPORTER NO. 1 SIGNATURE AND CERTIFICATION OF DELIVERY AND NON-TAMPERING WITH SHIPMENT: Jago		DATE DELIVERED: 08 (MO.) 12 (DAY) 81 (YR.)
TRANSPORTER NO. 2 SIGNATURE AND CERTIFICATION OF RECEIPT OF SHIPMENT	TRANSPORTER NO. 2 VEHICLE ID NO.	DATE RECEIVED: (MO.) (DAY) (YR.)
TRANSPORTER NO. 2 SIGNATURE AND CERTIFICATION OF DELIVERY AND NON-TAMPERING WITH SHIPMENT		DATE DELIVERED: (MO.) (DAY) (YR.)

TREATMENT STORAGE OR DISPOSAL FACILITY INDICATION OF ANY DIFFERENCES BETWEEN MANIFEST AND SHIPMENT OR LISTING OF REASONS FOR AND DISPOSITION OF REJECTED MATERIALS

Rec'd 9-28-83

HANDLING METHOD
1: T 3 1 | 4:
2: | 5:
3: | 6:

TREATMENT STORAGE OR DISPOSAL FACILITY SIGNATURE & CERTIFICATION: Ramon Sanchez	TITLE: Dispatcher	DATE RECEIVED: 09 (MO.) 12 (DAY) 81 (YR.)

DOCUMENT NO. NJ 0008531

TO BE FILLED OUT BY TSD FACILITY

ER-SWM-51

See cover sheet for instructions
Please TYPE or PRINT clearly using a ball point pen-PRESS HARD
PART A:

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES

HAZARDOUS WASTE MANIFEST

DOCUMENT NO. PA A 3257726

NAME	SITE ADDRESS	PHONE NO.	EPA I.D. NO.
GENERATOR Victaulic Company of America	Edison Road New Village, NJ 08886	201-859-0085	N J D 0 0 1 0 4 9 8 2 9 3
TRANSPORTER NO 1 Waste Conversion	2869 Sandstone Drive Hatfield, PA 19440	215-822-8996	P A D 0 8 1 5 6 9 0 1 5 9 2
TRANSPORTER NO. 2 (IF ANY)			
TREATMENT, STORAGE OR DISPOSAL (TSD) FACILITY Waste Conversion	2869 Sandstone Drive Hatfield, PA 19440	215-822-8996	P A D 0 8 1 5 6 9 0 1 5 9 2

IF MORE THAN TWO TRANSPORTERS ARE TO BE UTILIZED, FILL OUT THE FOLLOWING AS APPROPRIATE

THIS FORM IS NO. ____ OUT OF A TOTAL OF ____ THE FIRST MANIFEST DOCUMENT NO IS PA

TO BE FILLED OUT BY GENERATOR

	PROPER US DOT SHIPPING NAME	US DOT HAZARD CLASS	UN NUMBER	FORM: SOLID	FORM: LIQUID	FORM: GAS	QUANTITY	UNITS: GALLONS	UNITS: CU YDS.	UNITS: POUNDS	UNITS: TONS	CONTAINERS NO	CONTAINERS TYPE	EPA HAZ CODE	EPA WASTE TYPE
1	RQ Sulfuric Acid, Spent Waste Pickle Liquor (AND MURIATIC)	Corrosive Material	1832		XX		5,000	X				1	Tank	C/T	K 0 6 2
2															
3															
4															

SPECIAL HANDLING INSTRUCTIONS INCLUDING CONTAINER EXEMPTION (i.e. IDENTIFICATION OF ADDITIONAL WASTES OF A NON-HAZARDOUS NATURE INCLUDED IN SHIPMENT WHICH DO NOT HAVE TO BE MANIFESTED)

GENERATOR'S CERTIFICATION. This is to certify that the above named materials are properly classified, described, packaged, marked and labelled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, U.S EPA, and the State. The wastes described above were consigned to the transporter named. The TSD Facility can and will accept the shipment of hazardous waste, and has a valid permit to do so. I certify that the foregoing is true and correct to the best of my knowledge.

GENERATOR'S SIGNATURE	TITLE	DATE SHIPPED	EXPECTED ARRIVAL DATE
Ronald B. Esoh	ASST. PLANT MNGR.	9.23.81	9.23.81 (MONTH DAY YEAR)

DATE RECEIVED	TRANSPORTER NO 1 SIGNATURE AND CERTIFICATION OF RECEIPT OF SHIPMENT	TRANSPORTER NO. 1 H.W.T. ID (License) No.	NUMBER
9.23.81 (MONTH DAY YEAR)	Norman Darner	PA T [illegible] 3 2 7	

COPY 3 Generator - Retained By Generator.

TO BE FILLED OUT BY TRANSPORTER

PART B:

TRANSPORTER NO 1 SIGNATURE AND CERTIFICATION OF DELIVERY AND NON-TAMPERING WITH SHIPMENT	DATE DELIVERED
Norman Darner	9.23.81 (MONTH DAY YEAR)

DATE RECEIVED	TRANSPORTER NO 2 SIGNATURE AND CERTIFICATION OF RECEIPT OF SHIPMENT	TRANSPORTER NO. 2 H.W.T. ID (License) No.	NUMBER
MONTH DAY YEAR		PA	

TRANSPORTER NO. 2 SIGNATURE AND CERTIFICATION OF DELIVERY AND NON-TAMPERING WITH SHIPMENT	DATE DELIVERED
	MONTH DAY YEAR

TO BE FILLED OUT BY TSD FACILITY

TREATMENT STORAGE OR DISPOSAL FACILITY INDICATION OF ANY DIFFERENCES BETWEEN MANIFEST AND SHIPMENT OR LISTING OF REASONS FOR AND DISPOSITION OF REJECTED MATERIALS

No differences, no rejections

HANDLING METHOD	
1	S 0 2
2	T 2 1
3	T 2 3
4	T 4 0

GENERATOR'S EPA I.D. NO. NJD0061992 93 EXPECTED DISPOSAL DATE 9/23/81

TSD FACILITY SIGNATURE AND CERTIFICATION OF RECEIPT OF SHIPMENT	TITLE	DATE RECEIVED/REJECTED
Randy R Kaye	LAB TECH	9/23/81 (MONTH DAY YEAR)

In case of an emergency or spill immediately call the National Response Center (800) 424-8802 and the PA DER (717) 787-4343

DOCUMENT NO. PA A 3257726

COPY 3 Generator -- Mailed By TSD Facility. Victaulic

Form VWX-015 A
4/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WATER QUALITY MANAGEMENT ELEMENT

10/19/90 MW-1

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Apex Facility
SW ID NO.:
LAB NAME: COOPERATIVE VENTURES, INC.

R (1)
NJPDES NO. (2–8): NJ 0099791
WELL PERMIT NO. (9–16): 24-24273-0
SAMPLE DATE YR. MO. DAY (17–22): 90 10 19
NJ LAB CERT. NO. (23–27): 77505
WQM USE (28):

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 01 88 (MO. YR.) TO 01 93 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
X			X			X			X			Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01		352.51	
X			X			X			X			Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01		351.0	
X			X			X			X			Depth to water table from top of casing prior to sampling with cap off	feet: to nearest .01	82546	45.00	
X			X			X			X			Depth to water table from original ground level prior to sampling	feet: to nearest .01	72019	43.49	
X			X			X			X			Arsenic, Dissolved	UG/L as As	01000	5.	K
X			X			X			X			Barium, Dissolved	UG/L as Ba	01005	200.	K
												Biochemical Oxygen Demand - 5 Day	MG/L	00310		
X			X			X			X			Cadmium, Dissolved	UG/L as Cd	01025	5.0	
X			X			X			X			Chloride, Dissolved	UG/L as Cl	82295	2000.	
X			X			X			X			Chromium, Dissolved	UG/L as Cr	01030	70.	
												Chromium, Dissolved, Hexavalent	UG/L as Cr	01220		
												Chemical Oxygen Demand (COD), Dissolved	MG/L	00341		
												Coliform Group	N/100 ML	74056		
												Color	Pt - Co	00080		
X			X			X			X			Copper, Dissolved	UG/L as Cu	01040	20.	K
X			X			X			X			Cyanide, Total	MG/L as CN	00720	0.01	K
												Endrin, Total	UG/L	39390		
X			X			X			X			Fluoride, Dissolved	MG/L as F	00950	0.2	K
												Gross Alpha, Dissolved	Pc/L	01503		
												Gross Beta, Dissolved	Pc/L	03503		
												Hardness, Total as $CaCO_3$	MG/L	00900		
X			X			X			X			Iron, Dissolved	UG/L as Fe	01046	50.	K
X			X			X			X			Lead, Dissolved	UG/L as Pb	01049	5.	K
												Lindane, Total	UG/L	39782		
X			X			X			X			Manganese, Dissolved	UG/L	01056	20.	K
X			X			X			X			Mercury, Dissolved	UG/L	71890	0.5	K

VALUE CODING RULES AND
REMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND W. . ER ANALYSIS – MONITORING WE__ REPORT

MW-1

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Apex Facility | SW ID NO.:

LAB NAME: COOPERATIVE VENTURES, INC.

S (1)	NJPDES NO. (2–8)	WELL PERMIT NO. (9–16)	SAMPLE DATE YR. MO. DAY (17–22)	NJ LAB CERT. NO. (23–27)	WQM USE (28)
	NJ 0 0 9 9 7 9 1	2 4 - 2 4 2 7 3 - 0	9 0 1 0 1 9	7 7 5 0 5	

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 4 8 8 (MO. YR.) TO 0 3 9 3 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
												Methoxychlor, Total	UG/L	39480		
												Methylene Blue *Active* Substances	MG/L	38260		
X		X			X				X			Nitrogen, Ammonia, Dissolved $NH_3 + NH_4$ as N	MG/L as N	00608	0.1	K
X		X			X				X			Nitrogen, Nitrate, Dissolved	MG/L as N	00618	31.03	
												Odor	T.O.N.	00085		
X		X			X				X			pH	Standard Units	00400	7.07	
												Phenols, Total Recoverable	UG/L	32730		
												Radium 226, Dissolved	Pc/L	09503		
												Radium 228, Dissolved	Pc/L	81366		
X		X			X				X			Selenium, Dissolved	UG/L	01145	5.	K
X		X			X				X			Silver, Dissolved	UG/L	01075	20.	K
												Sodium, Dissolved	MG/L	00930		
X		X			X				X			Sulfate, Dissolved (as SO_4)	MG/L	00946	124.	
X		X			X				X			Total Dissolved Solids (TDS)	PPM	70300	639.	
												Total Organic Carbon (TOC)	PPM	00680		
												Total Organic Halogen (TOX)	UG/L	70353		
												Toxaphene	UG/L	39400		
												Turbidity	NTU	00076		
		X			X				X			Zinc, Dissolved	UG/L	01090	290.	K
												2, 4–D, Total	UG/L	39370		
												2, 4, 5–TP, Total	UG/L	39045		
		X			X				X			Phosphate	MG/L		0.39	
		X							X			Total Xylene	UG/L		1.0	K

VALUE CODING RULES AND
REMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

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NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – VOLATILE ORGANICS REPORT

MW-1

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Apex Facility
SW 'D NC.:
LAB NAME: COOPERATIVE VENTURES, INC.

T (1) | NJPDES NO. NJ 0 0 9 9 7 9 1 (2–8) | WELL PERMIT NO. 24-24273-0 (9–16) | SAMPLE DATE YR. MO. DAY 90 10 19 (17–22) | NJ LAB CERT. NO. 77505 (23–27) | WQM USE (28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 04 88 (MO. YR.) TO 03 93 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

DEPT. OF ENVIRON. PROTECTION
Division Water Resources

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
			X						X			Acrylonitrile	UG/L	34215	50.	K
			X						X			Benzene	UG/L	34030	5.	K
			X						X			Bromoform	UG/L	32104	5.	K
			X						X			Carbon Tetrachloride	UG/L	32102	2.2	K
			X						X			Chlorobenzene	UG/L	34301	5.	K
			X						X			Chlorodibromoethane	UG/L	34306	5.	K
			X						X			Chloroform	UG/L	32106	5.	K
			X						X			1, 1 - Dichloroethane	UG/L	34496	5.	K
			X						X			1, 2 - Dichloroethane	UG/L	34531	5.	K
			X						X			1, 1 - Dichloroethylene	UG/L	34501	5.	K
			X						X			1, 2 - Dichloropropane	UG/L	34541	5.	K
			X						X			Ethylbenzene	UG/L	34371	5.	K
			X						X			Methylene Chloride	UG/L	34423	5.	K
			X						X			1, 1, 2, 2 - Tetrachloroethane	UG/L	34516	5.	K
			X						X			Tetrachloroethylene	UG/L	34475	5.	K
			X						X			Toluene	UG/L	34012	5.	K
			X						X			1, 1, 1 - Trichloroethane	UG/L	34506	5.	K
			X						X			1, 1, 2 - Trichloroethane	UG/L	34511	5.	K
			X						X			Trichloroethylene	UG/L	39180	5.	K
			X						X			Vinyl Chloride	UG/L	39175	1.5	K
			X						X			Acrolein	UG/L	34210	50.	K
			X						X			Chloroethane	UG/L	34311	5.	K
			X						X			2 - Chloroethylvinyl Ether	UG/L	34576	5.	K
			X						X			Dichlorobromomethane	UG/L	32105	5.	K
			X						X			1, 3 - Dichloropropylene	UG/L	34699	5.	K
			X						X			Methyl Bromide	UG/L	34413	5.	K
			X						X			Methyl Chloride	UG/L	34418	5.	K
			X						X			1, 2 - trans - Dichloroethylene	UG/L	34546	5.	K
			X						X			1, 2 Dichlorobenzene	UG/L	34536	5.	K
			X						X			1, 3 Dichlorobenzene	UG/L	34566	5.	K
			X						X			1, 4 Dichlorobenzene	UG/L	34571	5.	K

VALUE CODING RULES AND
REMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

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NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

MW-2

GROUND WATER ANALYSIS — MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Apex Facility
SWID NO.:
LAB NAME: COOPERATIVE VENTURES, INC.

R (1) NJPDES NO. (2–8): NJ 0099791
WELL PERMIT NO. (9–16): 24-24272-1
SAMPLE DATE YR. | MO. | DAY (17–22): 90 | 10 | 19
NJ LAB CERT. NO. (23–27): 77505
WQM USE (28):

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 01 88 (MO. YR.) TO 03 93 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
X			X			X			X			Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01		341.90	
X			X			X			X			Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01		340.30	
X			X			X			X			Depth to water table from top of casing prior to sampling with cap off	feet: to nearest .01	82546	40.08	
X			X			X			X			Depth to water table from original ground level prior to sampling	feet: to nearest .01	72019	38.48	
X			X			X			X			Arsenic, Dissolved	UG/L as As	01000	5.	K
X			X			X			X			Barium, Dissolved	UG/L as Ba	01005	200.	K
												Biochemical Oxygen Demand - 5 Day	MG/L	00310		
X			X			X			X			Cadmium, Dissolved	UG/L as Cd	01025	5.	K
X			X			X			X			Chloride, Dissolved	UG/L as Cl	82295	15600.	
X			X			X			X			Chromium, Dissolved	UG/L as Cr	01030	70.	
												Chromium, Dissolved, Hexavalent	UG/L as Cr	01220		
												Chemical Oxygen Demand (COD), Dissolved	MG/L	00341		
												Coliform Group	N/100 ML	74056		
												Color	Pt - Co	00080		
X			X			X			X			Copper, Dissolved	UG/L as Cu	01040	20.	K
X			X			X			X			Cyanide, Total	MG/L as CN	00720	0.01	K
												Endrin, Total	UG/L	39390		
X			X			X			X			Fluoride, Dissolved	MG/L as F	00950	0.97	
												Gross Alpha, Dissolved	Pc/L	01503		
												Gross Beta, Dissolved	Pc/L	03503		
												Hardness, Total as $CaCO_3$	MG/L	00900		
X			X			X			X			Iron, Dissolved	UG/L as Fe	01046	50.	K
X			X			X			X			Lead, Dissolved	UG/L as Pb	01049	5.	K
												Lindane, Total	UG/L	39782		
X			X			X			X			Manganese, Dissolved	UG/L	01056	20.	K
X			X			X			X			Mercury, Dissolved	UG/L	71890	0.5	K

VALUE CODING RULES AND REMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

NEW JEF Y DEPARTMENT OF ENVIRONMENTAL PROT ION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

MW-2

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Apex Facility
SW :D NC.:
LAB NAME: COOPERATIVE VENTURES, INC.

	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
S (1)	NJ 0 0 9 9 7 9 1 (2–8)	2 4 - 2 4 2 7 2 - 1 (9–16)	9 0 1 0 1 9 (17–22)	7 7 5 0 5 (23–27)	(28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 4 8 8 (MO. YR.) TO 0 3 9 3 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS (Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.)	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	Methoxychlor, Total	UG/L	39480		
	Methylene Blue Active Substances	MG/L	38260		
X X X X	Nitrogen, Ammonia, Dissolved $NH_3 + NH_4$ as N	MG/L as N	00608	0.13	
X X X X	Nitrogen, Nitrate, Dissolved	MG/L as N	00618	9.26	
	Odor	T.O.N.	00085		
X X X X	pH	Standard Units	00400	7.02	
	Phenols, Total Recoverable	UG/L	32730		
	Radium 226, Dissolved	Pc/L	09503		
	Radium 228, Dissolved	Pc/L	81366		
X X X X	Selenium, Dissolved	UG/L	01145	5.	K
X X X X	Silver, Dissolved	UG/L	01075	20.	K
	Sodium, Dissolved	MG/L	00930		
X X X X	Sulfate, Dissolved (as SO_4)	MG/L	00946	122.	
X X X X	Total Dissolved Solids (TDS)	PPM	70300	525.	
	Total Organic Carbon (TOC)	PPM	00680		
	Total Organic Halogen (TOX)	UG/L	70353		
	Toxaphene	UG/L	39400		
	Turbidity	NTU	00076		
X X X X	Zinc, Dissolved	UG/L	01090	60.	K
	2, 4–D, Total	UG/L	39370		
	2, 4, 5–TP, Total	UG/L	39045		
X X X X	Phosphate	MG/L		0.48	
X X X	Total Xylene	UG/L		1.	K

VALUE CODING RULES AND
REMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

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NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

MW-2

GROUND WATER ANALYSIS – VOLATILE ORGANICS REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Apex Facility | SW ID NO.:

LAB NAME: COOPERATIVE VENTURES, INC.

T (1) | NJPDES NO. (2–8): NJ 0097971 | WELL PERMIT NO. (9–16): 24-24272-1 | SAMPLE DATE YR. MO. DAY (17–22): 901019 | NJ LAB CERT. NO. (23–27): 77505 | WQM USE (28):

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 4 8 8 (MO. YR.) TO 0 3 9 3 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
			X						X			Acrylonitrile	UG/L	34215	50.	K
			X						X			Benzene	UG/L	34030	5.	K
			X						X			Bromoform	UG/L	32104	5.	K
			X						X			Carbon Tetrachloride	UG/L	32102	5.	K
			X						X			Chlorobenzene	UG/L	34301	2.2	K
			X						X			Chlorodibromoethane	UG/L	34306	5.	K
			X						X			Chloroform	UG/L	32106	5.	K
			X						X			1, 1 - Dichloroethane	UG/L	34496	5.	K
			X						X			1, 2 - Dichloroethane	UG/L	34531	5.	K
			X						X			1, 1 - Dichloroethylene	UG/L	34501	5.	K
			X						X			1, 2 - Dichloropropane	UG/L	34541	5.	K
			X						X			Ethylbenzene	UG/L	34371	5.	K
			X						X			Methylene Chloride	UG/L	34423	5.	K
			X						X			1, 1, 2, 2 - Tetrachloroethane	UG/L	34516	5.	K
			X						X			Tetrachloroethylene	UG/L	34475	5.	K
			X						X			Toluene	UG/L	34012	5.	K
			X						X			1, 1, 1 - Trichloroethane	UG/L	34506	5.	K
			X						X			1, 1, 2 - Trichloroethane	UG/L	34511	5.	K
			X						X			Trichloroethylene	UG/L	39180	5.	K
			X						X			Vinyl Chloride	UG/L	39175	1.5	K
			X						X			Acrolein	UG/L	34210	50.	K
			X						X			Chloroethane	UG/L	34311	5.	K
			X						X			2 - Chloroethylvinyl Ether	UG/L	34576	5.	K
			X						X			Dichlorobromomethane	UG/L	32105	5.	K
			X						X			1, 3 - Dichloropropylene	UG/L	34699	5.	K
			X						X			Methyl Bromide	UG/L	34413	5.	K
			X						X			Methyl Chloride	UG/L	34418	5.	K
			X						X			1, 2 - trans - Dichloroethylene	UG/L	34546	5.	K
			X						X			1, 2 Dichlorobenzene	UG/L	34536	5.	K
			X						X			1, 3 Dichlorobenzene	UG/L	34566	5.	K
			X						X			1, 4 Dichlorobenzene	UG/L	34571	5.	K

VALUE CODING RULES AND
REMARK CODES ON REVERSE

29 42 55 68 | 33 34 46 47 59 60 72 73 | 40 41 53 54 66 67 79 80

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NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

MW-3

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Apex Facility
SW ID NO.:
LAB NAME: COOPERATIVE VENTURES, INC.

R (1) NJPDES NO. (2–8): NJ 0099791
WELL PERMIT NO. (9–16): 24-24271-3
SAMPLE DATE YR. | MO. | DAY (17–22): 90 10 19
NJ LAB CERT. NO. (23–27): 77505
WQM USE (28):

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 01 88 (MO. YR.) TO 03 93 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
X			X			X			X			*Elevation of top* of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01		340.92	
X			X			X			X			Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01		339.40	
X			X			X			X			Depth to water table from top of casing prior to sampling with cap off	feet: to nearest .01	82546	39.42	
X			X			X			X			Depth to water table from original ground level prior to sampling	feet: to nearest .01	72019	37.90	
X			X			X			X			Arsenic, Dissolved	UG/L as As	01000	5.	K
X			X			X			X			Barium, Dissolved	UG/L as Ba	01005	200.	K
												Biochemical Oxygen Demand - 5 Day	MG/L	00310		
X			X			X			X			Cadmium, Dissolved	UG/L as Cd	01025	5.	K
X			X			X			X			Chloride, Dissolved	UG/L as Cl	82295	1560.	
X			X			X			X			Chromium, Dissolved	UG/L as Cr	01030	11.	
												Chromium, Dissolved, Hexavalent	UG/L as Cr	01220		
												Chemical Oxygen Demand (COD), Dissolved	MG/L	00341		
												Coliform Group	N/100 ML	74056		
												Color	Pt - Co	00080		
X			X			X			X			Copper, Dissolved	UG/L as Cu	01040	20.	K
X			X			X			X			Cyanide, Total	MG/L as CN	00720	0.01	K
												Endrin, Total	UG/L	39390		
X			X			X			X			Fluoride, Dissolved	MG/L as F	00950	0.23	
												Gross Alpha, Dissolved	Pc/L	01503		
												Gross Beta, Dissolved	Pc/L	03503		
												Hardness, Total as $CaCO_3$	MG/L	00900		
X			X			X			X			Iron, Dissolved	UG/L as Fe	01046	50.	K
X			X			X			X			Lead, Dissolved	UG/L as Pb	01049	5.	K
												Lindane, Total	UG/L	39782		
Y			✓			✓			✓			Manganese, Dissolved	UG/L	01056	13.	
X			X			X			X			Mercury, Dissolved	UG/L	71890	0.5	K

VALUE CODING RULES AND
REMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

GROUND WATER ANALYSIS – MONITORING WELL REPORT

MW-3

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Apex Facility | SW ID NO.:

LAB NAME: COOPERATIVE VENTURES, INC.

	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
S (1)	NJ 0 0 9 9 7 9 1 (2–8)	2 4 - 2 4 2 7 1 - 3 (9–16)	9 0 1 0 1 9 (17–22)	7 7 5 0 5 (23–27)	(28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 4 8 8 (MO. YR.) TO 0 3 9 3 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS (Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.)	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	Methoxychlor, Total	UG/L	39460		
	Methylene Blue Active Substances	MG/L	38260		
X X X X	Nitrogen, Ammonia, Dissolved $NH_3 + NH_4$ as N	MG/L as N	00608	0.1	K
X X X X	Nitrogen, Nitrate, Dissolved	MG/L as N	00618	1.54	
	Odor	T.O.N.	00085		
X X X X	pH	Standard Units	00400	7.04	
	Phenols, Total Recoverable	UG/L	32730		
	Radium 226, Dissolved	Pc/L	09503		
	Radium 228, Dissolved	Pc/L	81366		
X X X X	Selenium, Dissolved	UG/L	01145	5.	K
X X X X	Silver, Dissolved	UG/L	01075	20.	K
	Sodium, Dissolved	MG/L	00930		
X X X	Sulfate, Dissolved (as SO_4)	MG/L	00946	117.	
X X X	Total Dissolved Solids (TDS)	PPM	70300	489.	
	Total Organic Carbon (TOC)	PPM	00680		
	Total Organic Halogen (TOX)	UG/L	70353		
	Toxaphene	UG/L	39400		
	Turbidity	NTU	00076		
X X X	Zinc, Dissolved	UG/L	01090	20.	K
	2, 4–D, Total	UG/L	39370		
	2, 4, 5–TP, Total	UG/L	39045		
X X X	Phosphate	MG/L		0.35	
X X	Total Xylene	UG/L		1.0	K

VALUE CODING RULES AND
REMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

Form VWX-016
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NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS -- VOLATILE ORGANICS REPORT

MW-3

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Apex Facility
SW ID NO.:
LAB NAME: COOPERATIVE VENTURES, INC

T (1) NJPDES NO. (2-8): NJ 0099791
WELL PERMIT NO. (9-16): 24-242713
SAMPLE DATE YR. MO. DAY (17-22): 901019
NJ LAB CERT. NO. (23-27): 77505
WQM USE (28):

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 4 8 8 (MO. YR.) TO 0 3 9 3 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
			X						X			Acrylonitrile	UG/L	34215	50.	K
			X						X			Benzene	UG/L	34030	5.	K
			X						X			Bromoform	UG/L	32104	5.	K
			X						X			Carbon Tetrachloride	UG/L	32102	2.2	K
			X						X			Chlorobenzene	UG/L	34301	5.	K
			X						X			Chlorodibromoethane	UG/L	34306	5.	K
			X						X			Chloroform	UG/L	32106	5.	K
			X						X			1, 1 - Dichloroethane	UG/L	34496	5.	K
			X						X			1, 2 - Dichloroethane	UG/L	34531	5.	K
			X						X			1, 1 - Dichloroethylene	UG/L	34501	5.	K
			X						X			1, 2 - Dichloropropane	UG/L	34541	5.	K
			X						X			Ethylbenzene	UG/L	34371	5.	K
			X						X			Methylene Chloride	UG/L	34423	5.	K
			X						X			1, 1, 2, 2 - Tetrachloroethane	UG/L	34516	5.	K
			X						X			Tetrachloroethylene	UG/L	34475	5.	K
			X						X			Toluene	UG/L	34012	5.	K
			X						X			1, 1, 1 - Trichloroethane	UG/L	34506	5.	K
			X						X			1, 1, 2 - Trichloroethane	UG/L	34511	5.	K
			X						X			Trichloroethylene	UG/L	39180	5.	K
			X						X			Vinyl Chloride	UG/L	39175	1.5	K
			X						X			Acrolein	UG/L	34210	50.	K
			X						X			Chloroethane	UG/L	34311	5.	K
			X						X			2 - Chloroethylvinyl Ether	UG/L	34576	5.	K
			X						X			Dichlorobromomethane	UG/L	32105	5.	K
			X						X			1, 3 - Dichloropropylene	UG/L	34699	5.	K
			X						X			Methyl Bromide	UG/L	34413	5.	K
			X						X			Methyl Chloride	UG/L	34418	5.	K
			X						X			1, 2 - trans - Dichloroethylene	UG/L	34546	5.	K
			X						X			1, 2 Dichlorobenzene	UG/L	34536	5.	K
			X						X			1, 3 Dichlorobenzene	UG/L	34566	5.	K
			X						X			1, 4 Dichlorobenzene	UG/L	34571	5.	K

VALUE CODING RULES AND
REMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

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NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

MW-4

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Apex Facility
SWI ID NO.:
LAB NAME: COOPERATIVE VENTURES, INC

NJPDES NO.: R NJ 0099791 (cols 1, 2–8)
WELL PERMIT NO.: 24-24270-5 (cols 9–16)
SAMPLE DATE: YR. 90 MO. 10 DAY 19 (cols 17–22)
NJ LAB CERT. NO.: 77505 (cols 23–27)
WQM USE: (col 28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 1 4 8 8 (MO. YR.) TO 0 1 3 9 3 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

DEPT. OF ENVIRONMENTAL PROTECTION
Division Water Resources
Bur[illegible]

SAMPLING MONTHS: Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
X			X			X			X			Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01		342.24	
X			X			X			X			Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01		340.70	
X			X			X			X			Depth to water table from top of casing prior to sampling with cap off	feet: to nearest .01	82546	39.08	
X			X			X			X			Depth to water table from original ground level prior to sampling	feet: to nearest .01	72019	37.54	
X			X			X			X			Arsenic, Dissolved	UG/L as As	01000	5.	K
X			X			X			X			Barium, Dissolved	UG/L as Ba	01005	200.	K
												Biochemical Oxygen Demand - 5 Day	MG/L	00310		
X			X			X			X			Cadmium, Dissolved	UG/L as Cd	01025	5.	K
X			X			X			X			Chloride, Dissolved	UG/L as Cl	82295	10400.	
X			X			X			X			Chromium, Dissolved	UG/L as Cr	01030	70.	
												Chromium, Dissolved, Hexavalent	UG/L as Cr	01220		
												Chemical Oxygen Demand (COD), Dissolved	MG/L	00341		
												Coliform Group	N/100 ML	74056		
												Color	Pt - Co	00080		
X			X			X			X			Copper, Dissolved	UG/L as Cu	01040	20.	K
X			X			X			X			Cyanide, Total	MG/L as CN	00720	0.01	K
												Endrin, Total	UG/L	39390		
X			X			X			X			Fluoride, Dissolved	MG/L as F	00950	0.2	K
												Gross Alpha, Dissolved	Pc/L	01503		
												Gross Beta, Dissolved	Pc/L	03503		
												Hardness, Total as $CaCO_3$	MG/L	00900		
X			X			X			X			Iron, Dissolved	UG/L as Fe	01046	50.	K
X			X			X			X			Lead, Dissolved	UG/L as Pb	01049	5.	K
												Lindane, Total	UG/L	39782		
X			X			X			X			Manganese, Dissolved	UG/L	01056	70.	K
X			X			X			X			Mercury, Dissolved	UG/L	71890	0.5	K

VALUE CODING RULES AND
REMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
ATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

MW-4

LEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Apex Facility — SW ID NO.:

LAB NAME: COOPERATIVE VENTURES, INC.

	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
	S NJ 0099791	24-24270-5	90 10 19	77505	
	1 2–8	9–16	17–22	23–27	28

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 04 88 (MO. YR.) TO 03 93 (MO. YR.)

1990

SUBMIT WITH SIGNED T-VWX-014

DEPT. OF ENVIRON. PROTECTION
Division Water Resources
Bureau of

SAMPLING MONTHS (Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.)	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	Methoxychlor, Total	UG/L	39460		
	Methylene Blue Active Substances	MG/L	38260		
X X X	Nitrogen, Ammonia, Dissolved $NH_3 + NH_4$ as N	MG/L as N	00608	0.12	
X X X	Nitrogen, Nitrate, Dissolved	MG/L as N	00618	8.12	
	Odor	T.O.N.	00085		
X X X	pH	Standard Units	00400	7.14	
	Phenols, Total Recoverable	UG/L	32730		
	Radium 226, Dissolved	Pc/L	09503		
	Radium 228, Dissolved	Pc/L	81366		
X X X	Selenium, Dissolved	UG/L	01145	5.	K
X X X	Silver, Dissolved	UG/L	01075	20.	K
	Sodium, Dissolved	MG/L	00930		
X X X	Sulfate, Dissolved (as SO_4)	MG/L	00946	161.	
X X X	Total Dissolved Solids (TDS)	PPM	70300	530.	
	Total Organic Carbon (TOC)	PPM	00680	--	
	Total Organic Halogen (TOX)	UG/L	70353		
	Toxaphene	UG/L	39400		
	Turbidity	NTU	00076		
X X X	Zinc, Dissolved	UG/L	01090	20.	K
	2, 4–D, Total	UG/L	39370		
	2, 4, 5–TP, Total	UG/L	39045		
X X X	Phosphate	MG/L		6.51	
X X	Total Xylene	UG/L		1.	K

VALUE CODING RULES AND REMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

Form VWX-016
4/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

MW-4

GROUND WATER ANALYSIS – VOLATILE ORGANICS REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Apex Facility
SW ID NO.:
LAB NAME: COOPERATIVE VENTURES, INC.

NJPDES NO.: T NJ 0 0 9 9 7 9 1 (cols 2–8)
WELL PERMIT NO.: 2 4 - 2 4 2 7 0 - 5 (cols 9–16)
SAMPLE DATE YR. MO. DAY: 9 0 / 0 1 / 1 9 (cols 17–22)
NJ LAB CERT. NO.: 7 7 5 0 5 (cols 23–27)
WQM USE: (col 28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 4 8 8 (MO. YR.) TO 0 3 9 3 (MO. YR.)

RECEIVED
1990
DEPT. OF ENVIRONMENTAL PROTECTION
Bureau

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS (Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.)	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
X X	Acrylonitrile	UG/L	34215	50.	K
X X	Benzene	UG/L	34030	5.	K
X X	Bromoform	UG/L	32104	5.	K
X X	Carbon Tetrachloride	UG/L	32102	2.2	K
X X	Chlorobenzene	UG/L	34301	5.	K
X X	Chlorodibromoethane	UG/L	34306	5.	K
X X	Chloroform	UG/L	32106	5.	K
X X	1, 1 - Dichloroethane	UG/L	34496	5.	K
X X	1, 2 - Dichloroethane	UG/L	34531	5.	K
X X	1, 1 - Dichloroethylene	UG/L	34501	5.	K
X X	1, 2 - Dichloropropane	UG/L	34541	5.	K
X X	Ethylbenzene	UG/L	34371	5.	K
X X	Methylene Chloride	UG/L	34423	5.	K
X X	1, 1, 2, 2 - Tetrachloroethane	UG/L	34516	5.	K
X X	Tetrachloroethylene	UG/L	34475	5.	K
X X	Toluene	UG/L	34012	5.	K
X X	1, 1, 1 - Trichloroethane	UG/L	34506	5.	K
X X	1, 1, 2 - Trichloroethane	UG/L	34511	5.	K
X X	Trichloroethylene	UG/L	39180	5.	K
X X	Vinyl Chloride	UG/L	39175	1.5	K
X X	Acrolein	UG/L	34210	50.	K
X X	Chloroethane	UG/L	34311	5.	K
X X	2 - Chloroethylvinyl Ether	UG/L	34576	5.	K
X X	Dichlorobromomethane	UG/L	32105	5.	K
X X	1, 3 - Dichloropropylene	UG/L	34699	5.	K
X X	Methyl Bromide	UG/L	34413	5.	K
X X	Methyl Chloride	UG/L	34418	5.	K
X X	1, 2 - trans - Dichloroethylene	UG/L	34546	5.	K
X X	1, 2 Dichlorobenzene	UG/L	34536	5.	K
X X	1, 3 Dichlorobenzene	UG/L	34566	5.	K
X X	1, 4 Dichlorobenzene	UG/L	34571	5.	K

VALUE CODING RULES AND
REMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

Form T-VWX-014
8/83

NEW JE[illegible] Y DEPARTMENT OF ENVIRONMENTAL P[illegible]TECTION
DIVISION OF WATER RESOURCES

8/15/89

MONITORING REPORT – TRANSMITTAL SHEET

NJPDES NO.	REPORTING PERIOD MO. YR.		MO. YR.
0 0 9 9 7 9 1	0 5 8 9	THRU	0 7 8 9

PERMITTEE: Name Victaulic Company of America

Address Box 31; 4901 Kesslerville Road

Easton, PA 18042

FACILITY: Name Apex Facility

Address Edison Road

New Village, NJ (County) Warren

Telephone (201) 859-0085

FORMS ATTACHED *(Indicate Quantity of Each)*

SLUDGE REPORTS - SANITARY

[ ] T-VWX-007 [ ] T-VWX-008 [ ] T-VWX-009

SLUDGE REPORTS - INDUSTRIAL

[1] T-VWX-010A [ ] T-VWX-010B

WASTEWATER REPORTS

[1] T-VWX-011 [1] T-VWX-012 013A [2] T-VWX-013

GROUNDWATER REPORTS

[4] VWX-015(A,B) [4*] VWX-016 [ ] VWX-017

NPDES DISCHARGE MONITORING REPORT

[ ] EPA FORM 3320-1

* May & Nov

OPERATING EXCEPTIONS

	YES	NO
DYE TESTING	☐	☐
TEMPORARY BYPASSING	☐	☐
DISINFECTION INTERRUPTION	☐	☐
MONITORING MALFUNCTIONS	☐	☐
UNITS OUT OF OPERATION	☐	☐
OTHER	☐	☐

(Detail any "Yes" on reverse side in appropriate space.)

NOTE: The "Hours Attended at Plant" on the reverse of this sheet must also be completed.

AUTHENTICATION - I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

LICENSED OPERATOR

Name *(Printed)* _____

Grade & Registry No. _____

Signature _____

Date _____

PRINCIPAL EXECUTIVE OFFICER or DULY AUTHORIZED REPRESENTATIVE

Name *(Printed)* David S. Beeby

Title *(Printed)* Vice President - Mfg.

Signature [signature]

Date 8/15/89

T-VWX-015 A
80

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

MW-1

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Apex Facility | SWID NO.:

LAB NAME: Cooperative Ventures, Inc.

R	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. | MO. | DAY	NJ LAB CERT. NO.	WQM USE
1	NJ 0 0 9 9 7 9 1 (2–8)	2 4 - 2 4 2 7 3 - 0 (9–16)	8 9 | 0 6 | 2 7 (17–22)	7 7 5 0 5 (23–27)	

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 1 \| 8 9 (MO. YR.) TO 1 2 \| 8 9 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
		X			X			X			Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01		352.51	
		X			X			X			Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01		351.0	
		X			X			X			Depth to water table from top of casing prior to sampling with cap off	feet: to nearest .01	82546	40.26	*
		X			X			X			Depth to water table from original ground level prior to sampling	feet: to nearest .01	72019	38.75	
		X			X			X			Arsenic, ~~Dissolved~~ Total	UG/L as As	01000	<0.002	
		X			X			X			Barium, ~~Dissolved~~ Total	UG/L as Ba	01005	<0.2	
											Biochemical Oxygen Demand - 5 Day	MG/L	00310		
		X			X			X			Cadmium, ~~Dissolved~~ Total	UG/L as Cd	01025	0.005	
		X			X			X			Chloride, ~~Dissolved~~ Total	UG/L as Cl	82295	11.0	
		X			X			X			Chromium, ~~Dissolved~~ Total	UG/L as Cr	01030	<0.005	
		X			X			X			Chromium, ~~Dissolved~~, Hexavalent Total	UG/L as Cr	01220	<0.005	
											Chemical Oxygen Demand (COD), Dissolved	MG/L	00341		
											Coliform Group	N/100 ML	74056		
											Color	Pt - Co	00080		
		X			X			X			Copper, ~~Dissolved~~ Total	UG/L as Cu	01040	0.003	
		X			X			X			Cyanide, Total	MG/L as CN	00720	0.004	
											Endrin, Total	UG/L	39390		
		X			X			X			Fluoride, ~~Dissolved~~ Total	MG/L as F	00950	0.21	
											Gross Alpha, Dissolved	Pc/L	01503		
											Gross Beta, Dissolved	Pc/L	03503		
											Hardness, Total as $CaCO_3$	MG/L	00900		
		X			X			X			Iron, ~~Dissolved~~ Total	UG/L as Fe	01046	19.8	
		X			X			X			Lead, ~~Dissolved~~ Total	UG/L as Pb	01049	0.003	
											Lindane, Total	UG/L	39782		
		X			X			X			Manganese, ~~Dissolved~~ Total	UG/L	01056	0.49	
		X			X			X			Mercury, ~~Dissolved~~ Total	UG/L	71890	<0.0005	

VALUE CODING RULES AND REMARK CODES ON REVERSE

* Measured on 6-21-89 by DRAI

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

NEW JE / DEPARTMENT OF ENVIRONMENTAL PROTE ON
DIVISION OF WATER RESOURCES
'ATER QUALITY MANAGEMENT ELEMENT

Page 2

MW1

GROUND WATER ANALYSIS – MONITORING WELL REPORT

ASE TYPE OR PRINT WITH BALLPOINT PEN

ILITY NAME Apex Facility

NAME Cooperative Ventures, Inc.

S (1) | NJPDES NO. NJ 0 0 9 9 7 9 1 (2–8) | WELL PERMIT NO. 2 4 - 2 4 2 7 3 - 0 (9–16) | SAMPLE DATE YR. 8 9 MO. 0 6 DAY 2 7 (17–22) | NJ LAB CERT. NO. 7 7 5 0 5 (23–27) | WQM USE (28)

HE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 1 8 9 (MO. YR.) TO 1 2 8 9 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
										Methoxychlor, Total	UG/L	39480		
										Methylene Blue Active Substances	MG/L	38260		
	X			X			X			Nitrogen, Ammonia, Dissolved $NH_3 + NH_4$ as N	MG/L as N	00608	<0.1	U
	X			X			X			Nitrogen, Nitrate ~~Dissolved~~ Total	MG/L as N	00618	6.8	
										Odor	T.O.N.	00085		
	X			X			X			pH	Standard Units	00400	7.75	
										Phenols, Total Recoverable	UG/L	32730		
										Radium 226, Dissolved	Pc/L	09503		
										Radium 228, Dissolved	Pc/L	81366		
	X			X			X			Selenium, ~~Dissolved~~ Total	UG/L	01145	<0.005	
	X			X			X			Silver, ~~Dissolved~~ Total	UG/L	01075	<0.02	
										Sodium, Dissolved	MG/L	00930		
	X			X			X			Sulfate, ~~Dissolved~~ (as SO_4) Total	MG/L	00946	185.0	
	X			X			X			Total Dissolved Solids (TDS)	PPM	70300	571.0	
										Total Organic Carbon (TOC)	PPM	00680		
										Total Organic Halogen (TOX)	UG/L	70353		
										Toxaphene	UG/L	39400		
										Turbidity	NTU	00076		
	X			X			X			Zinc, ~~Dissolved~~ Total	UG/L	01090	0.46	
										2, 4–D, Total	UG/L	39370		
										2, 4, 5–TP, Total	UG/L	39045		
	X			X			X			Phosphate	MG/L		0.46	
	X						X			Total Xylene	UG/L		<5	U

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29 33 34 40 41
42 46 47 53 54
55 59 60 66 67

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

MW-1

GROUND WATER ANALYSIS – VOLATILE ORGANICS REPORT

EASE TYPE OR PRINT WITH BALLPOINT PEN

ACILITY NAME: Apex Facility | SW ID NO:

AB NAME: Cooperative Ventures, Inc.

T (1)	NJPDES NO. (2–8)	WELL PERMIT NO. (9–16)	SAMPLE DATE YR. MO. DAY (17–22)	NJ LAB CERT. NO. (23–27)	WQM USE (28)
	NJ 0 0 9 9 7 9 1	2 4 - 2 4 2 7 3 - 0	8 9 0 6 2 7	7 7 1 6 6	

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 1 8 9 (MO. YR.) TO 1 2 8 9 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
		X						X			Acrylonitrile	UG/L	34215	<50	U
		X						X			Benzene	UG/L	34030	<5	U
		X						X			Bromoform	UG/L	32104	<5	U
		X						X			Carbon Tetrachloride	UG/L	32102	<2.2	U
		X						X			Chlorobenzene	UG/L	34301	<5	U
		X						X			Chlorodibromoethane	UG/L	34306	<5	U
		X						X			Chloroform	UG/L	32106	<5	U
		X						X			1, 1 - Dichloroethane	UG/L	34496	<5	U
		X						X			1, 2 - Dichloroethane	UG/L	34531	<5	U
		X						X			1, 1 - Dichloroethylene	UG/L	34501	<5	U
		X						X			1, 2 - Dichloropropane	UG/L	34541	<5	U
		X						X			Ethylbenzene	UG/L	34371	<5	U
		X						X			Methylene Chloride	UG/L	34423	<5	U
		X						X			1, 1, 2, 2 - Tetrachloroethane	UG/L	34516	<5	U
		X						X			Tetrachloroethylene	UG/L	34475	<5	U
		X						X			Toluene	UG/L	34012	<5	U
		X						X			1, 1, 1 - Trichloroethane	UG/L	34506	<5	U
		X						X			1, 1, 2 - Trichloroethane	UG/L	34511	<5	U
		X						X			Trichloroethylene	UG/L	39180	<5	U
		X						X			Vinyl Chloride	UG/L	39175	<1.5	U
		X						X			Acrolein	UG/L	34210	<50	U
		X						X			Chloroethane	UG/L	34311	<5	U
		X						X			2 - Chloroethylvinyl Ether	UG/L	34576	<5	U
		X						X			Dichlorobromomethane	UG/L	32105	<5	U
		X						X			1, 3 - Dichloropropylene	UG/L	34699	<5	U
		X						X			Methyl Bromide	UG/L	34413	<5	U
		X						X			Methyl Chloride	UG/L	34418	<5	U
		X						X			1, 2 - trans - Dichloroethylene	UG/L	34546	<5	U
											1, 2 Dichlorobenzene	UG/L	34536		
											1, 3 Dichlorobenzene	UG/L	34566		
											1, 4 Dichlorobenzene	UG/L	34571		

VALUE CODING RULES AND
EMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

Form VWX-0.15 A
4/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

MW-1

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Apex Facility | SW ID NO.:

LAB NAME: Cooperative Ventures, Inc.

R	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. | MO. | DAY	NJ LAB CERT. NO.	WQM USE
1	NJ 0 0 9 9 7 9 1 (2–8)	2 4 - 2 4 2 7 3 - 0 (9–16)	8 9 | 0 7 | 2 0 (17–22)	7 7 5 0 5 (23–27)	(28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 1 \| 8 9 (MO. YR.) TO 1 2 \| 8 9 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS (Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.)	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
X X X X	Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01			
X X X X	Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01			
X X X X	Depth to water table from top of casing prior to sampling with cap off	feet: to nearest .01	8 2 5 4 6		
X X X X	Depth to water table from original ground level prior to sampling	feet: to nearest .01	7 2 0 1 9		
X X X X	Arsenic, Dissolved	UG/L as As	0 1 0 0 0	< 0 . 0 0 5	
X X X X	Barium, Dissolved	UG/L as Ba	0 1 0 0 5		
	Biochemical Oxygen Demand - 5 Day	MG/L	0 0 3 1 0		
X X X X	Cadmium, Dissolved	UG/L as Cd	0 1 0 2 5	< 0 . 0 1	
X X X X	Chloride, Dissolved	UG/L as Cl	8 2 2 9 5	1 0	
X X X X	Chromium, Dissolved	UG/L as Cr	0 1 0 3 0		
X X X X	Chromium, Dissolved, Hexavalent	UG/L as Cr	0 1 2 2 0		
	Chemical Oxygen Demand (COD), Dissolved	MG/L	0 0 3 4 1		
	Coliform Group	N/100 ML	7 4 0 5 6		
	Color	Pt - Co	0 0 0 8 0		
X X X X	Copper, Dissolved	UG/L as Cu	0 1 0 4 0	< 0 . 0 2	
X X X X	Cyanide, Total	MG/L as CN	0 0 7 2 0		
	Endrin, Total	UG/L	3 9 3 9 0		
X X X X	Fluoride, Dissolved	MG/L as F	0 0 9 5 0	< 0 . 2 5	
	Gross Alpha, Dissolved	Pc/L	0 1 5 0 3		
	Gross Beta, Dissolved	Pc/L	0 3 5 0 3		
	Hardness, Total as $CaCO_3$	MG/L	0 0 9 0 0		
X X X X	Iron, Dissolved	UG/L as Fe	0 1 0 4 6	< 0 . 0 5	
X X X X	Lead, Dissolved	UG/L as Pb	0 1 0 4 9	< 0 . 0 0 5	
	Lindane, Total	UG/L	3 9 7 8 2		
X X X X	Manganese, Dissolved	UG/L	0 1 0 5 6	< 0 . 0 2	
X X X X	Mercury, Dissolved	UG/L	7 1 8 9 0		

VALUE CODING RULES AND REMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

GROUND WATER ANALYSIS – MONITORING WELL REPORT

MW1

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Apex Facility
SW ID NO.:
LAB NAME: Cooperative Ventures, Inc.

	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
S	NJ 0 0 9 9 7 9 1	2 4 - 2 4 2 7 3 - 0	8 9 0 7 2 0	7 7 5 0 5	
1	2 – 8	9 – 16	17 – 22	23 – 27	28

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 1 8 9 (MO. YR.) TO 1 2 8 9 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
											Methoxychlor, Total	UG/L	39480		
											Methylene Blue Active Substances	MG/L	38260		
		X			X			X			Nitrogen, Ammonia, Dissolved $NH_3 + NH_4$ as N	MG/L as N	00608		
		X			X			X			Nitrogen, Nitrate Dissolved	MG/L as N	00618	6.8	
											Odor	T.O.N.	00085		
		X			X			X			pH	Standard Units	00400		
											Phenols, Total Recoverable	UG/L	32730		
											Radium 226, Dissolved	Pc/L	09503		
											Radium 228, Dissolved	Pc/L	81366		
		X			X			X			Selenium, Dissolved	UG/L	01145		
		X			X			X			Silver, Dissolved	UG/L	01075		
											Sodium, Dissolved	MG/L	00930		
		X			X			X			Sulfate, Dissolved (as SO_4)	MG/L	00946	112.0	
		X			X			X			Total Dissolved Solids (TDS)	PPM	70300		
											Total Organic Carbon (TOC)	PPM	00680		
											Total Organic Halogen (TOX)	UG/L	70353		
											Toxaphene	UG/L	39400		
											Turbidity	NTU	00076		
	X			X			X				Zinc, Dissolved	UG/L	01090	<0.01	
											2, 4–D, Total	UG/L	39370		
											2, 4, 5–TP, Total	UG/L	39045		
		X			X			X			Phosphate	MG/L			
		X						X			Total Xylene	UG/L			

VALUE CODING RULES AND REMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

FORM VWX-019A
REV. 83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

mw-2

GROUND WATER ANALYSIS – MONITORING WELL REPORT 1

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Apex Facility | SWID NO.:

LAB NAME: Cooperative Ventures, Inc.

R	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. | MO. | DAY	NJ LAB CERT. NO.	WQM USE
1	NJ 0 0 9 9 7 9 1 (2–8)	2 4 - 2 4 2 7 2 - 1 (9–16)	8 9 | 0 6 | 2 7 (17–22)	7 7 5 0 5 (23–27)	(28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 01 | 89 (MO. YR.) TO 12 | 89 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS (Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.)	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
X X X	Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01		341.90	
X X X	Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01		340.3	
X X X	Depth to water table from top of casing prior to sampling with cap off	feet: to nearest .01	82546	35.82	*
X X X	Depth to water table from original ground level prior to sampling	feet: to nearest .01	72019	34.22	
X X X	Arsenic, ~~Dissolved~~ Total	UG/L as As	01000	<0.005	
X X X	Barium, ~~Dissolved~~ Total	UG/L as Ba	01005	<0.2	
	Biochemical Oxygen Demand - 5 Day	MG/L	00310		
X X X	Cadmium, ~~Dissolved~~ Total	UG/L as Cd	01025	<0.01	
X X X	Chloride, ~~Dissolved~~ Total	UG/L as Cl	82295	10.0	
X X X	Chromium, ~~Dissolved~~ Total	UG/L as Cr	01030	<0.05	
X X X	Chromium, ~~Dissolved~~, Hexavalent Total	UG/L as Cr	01220	<0.05	
	Chemical Oxygen Demand (COD), Dissolved	MG/L	00341		
	Coliform Group	N/100 ML	74056		
	Color	Pt - Co	00080		
X X X	Copper, ~~Dissolved~~ Total	UG/L as Cu	01040	<0.02	
X X X	Cyanide, Total	MG/L as CN	00720	<0.01	
	Endrin, Total	UG/L	39390		
X X X	Fluoride, ~~Dissolved~~ Total	MG/L as F	00950	1.3	
	Gross Alpha, Dissolved	Pc/L	01503		
	Gross Beta, Dissolved	Pc/L	03503		
	Hardness, Total as $CaCO_3$	MG/L	00900		
X X X	Iron, ~~Dissolved~~ Total	UG/L as Fe	01046	0.31	
X X X	Lead, ~~Dissolved~~ Total	UG/L as Pb	01049	<0.005	
	Lindane, Total	UG/L	39782		
X X X	Manganese, ~~Dissolved~~ Total	UG/L	01056	<0.02	
X X X	Mercury, ~~Dissolved~~ Total	UG/L	71890	<0.0005	

VALUE CODING RULES AND REMARK CODES ON REVERSE

* Measured on 6-21-89 by DRAI

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

MW 2

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Apex Facility | SWID NO.:

OWNER NAME: Cooperative Ventures, Inc.

	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
	NJ 0 0 9 9 7 9 1	2 4 - 2 4 2 7 2 - 1	8 9 0 6 2 7	7 7 5 0 5	
	(2–8)	(9–16)	(17–22)	(23–27)	(28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 1 / 8 9 (MO. YR.) TO 1 2 / 8 9 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	Methoxychlor, Total	UG/L	39460		
	Methylene Blue Active Substances	MG/L	38260		
X	Nitrogen, Ammonia, Dissolved $NH_3 - NH_4$ as N	MG/L as N	00608	<0.1	u
X	Nitrogen, Nitrate Dissolved	MG/L as N	00618	2.5	
	Odor	T.O.N.	00085		
X	pH	Standard Units	00400	7.69	
	Phenols, Total Recoverable	UG/L	32730		
	Radium 226, Dissolved	Pc/L	09503		
	Radium 228, Dissolved	Pc/L	81366		
X	Selenium, ~~Dissolved~~ Total	UG/L	01145	K0.005	
X	Silver, ~~Dissolved~~ Total	UG/L	01075	<0.002	
	Sodium, Dissolved	MG/L	00930		
X	Sulfate, ~~Dissolved~~ (as SO_4) Total	MG/L	00946	1116.0	
X	Total Dissolved Solids (TDS)	PPM	70300	5121.0	
	Total Organic Carbon (TOC)	PPM	00680		
	Total Organic Halogen (TOX)	UG/L	70353		
	Toxaphene	UG/L	39400		
	Turbidity	NTU	00076		
X	Zinc, ~~Dissolved~~ Total	UG/L	01090	0.416	
	2, 4–D, Total	UG/L	39370		
	2, 4, 5–TP, Total	UG/L	39045		
X	Phosphate	MG/L		0.20	
X	Total Xylene	UG/L		<5	u

VALUE CODING RULES AND MARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67

m VWX-016
83

NEW J[illegible]Y DEPARTMENT OF ENVIRONMENTAL [illegible]OTE[illegible]N
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

mw 2

GROUND WATER ANALYSIS – VOLATILE ORGANICS REPORT

EASE TYPE OR PRINT WITH BALLPOINT PEN

ACILITY NAME: Apex Facility | SW ID NO:

AB NAME: Cooperative Ventures, Inc.

	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
T	NJ 0 0 9 9 7 9 1	2 4 - 2 4 2 7 2 - 1	8 9 0 6 2 7	7 7 1 6 6	
1	2 – 8	9 – 16	17 – 22	23 – 27	28

HE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 1 8 9 (MO. YR.) TO 1 2 8 9 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.					
X X	Acrylonitrile	UG/L	34215	<50	U
X X	Benzene	UG/L	34030	<5	U
X X	Bromoform	UG/L	32104	<5	U
X X	Carbon Tetrachloride	UG/L	32102	<2.2	U
X X	Chlorobenzene	UG/L	34301	<5	U
X X	Chlorodibromoethane	UG/L	34306	<5	U
X X	Chloroform	UG/L	32106	<5	U
X X	1, 1 - Dichloroethane	UG/L	34496	<5	U
X X	1, 2 - Dichloroethane	UG/L	34531	<5	U
X X	1, 1 - Dichloroethylene	UG/L	34501	<5	U
X X	1, 2 - Dichloropropane	UG/L	34541	<5	U
X X	Ethylbenzene	UG/L	34371	<5	U
X X	Methylene Chloride	UG/L	34423	<5	U
X X	1, 1, 2, 2 - Tetrachloroethane	UG/L	34516	<5	U
X X	Tetrachloroethylene	UG/L	34475	<5	U
X X	Toluene	UG/L	34012	<5	U
X X	1, 1, 1 - Trichloroethane	UG/L	34506	<5	U
X X	1, 1, 2 - Trichloroethane	UG/L	34511	<5	U
X X	Trichloroethylene	UG/L	39180	<5	U
X X	Vinyl Chloride	UG/L	39175	<1.5	U
X X	Acrolein	UG/L	34210	<50	U
X X	Chloroethane	UG/L	34311	<5	U
X X	2 - Chloroethylvinyl Ether	UG/L	34576	<5	U
X X	Dichlorobromomethane	UG/L	32105	<5	U
X X	1, 3 - Dichloropropylene	UG/L	34699	<5	U
X X	Methyl Bromide	UG/L	34413	<5	U
X X	Methyl Chloride	UG/L	34418	<5	U
X X	1, 2 - trans - Dichloroethylene	UG/L	34546	<5	U
	1, 2 Dichlorobenzene	UG/L	34536		
	1, 3 Dichlorobenzene	UG/L	34566		
	1, 4 Dichlorobenzene	UG/L	34571		

VALUE CODING RULES AND
EMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

Form VWX-015 A
(1/83)

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

MW-2

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Apex Facility
SW ID NO.:
LAB NAME: Cooperative Ventures, Inc.

R	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
1	NJ 0 0 9 9 7 9 1 (2–8)	2 4 - 2 4 2 7 2 - 1 (9–16)	8 9 0 7 2 0 (17–22)	7 7 5 0 5 (23–27)	(28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 1 8 9 (MO. YR.) TO 1 2 8 9 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS												ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.					
X			X			X			X			Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01			
X			X			X			X			Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01			
X			X			X			X			Depth to water table from top of casing prior to sampling with cap off	feet: to nearest .01	8 2 5 4 6		
X			X			X			X			Depth to water table from original ground level prior to sampling	feet: to nearest .01	7 2 0 1 9		
X			X			X			X			Arsenic, Dissolved	UG/L as As	0 1 0 0 0		
X			X			X			X			Barium, Dissolved	UG/L as Ba	0 1 0 0 5		
												Biochemical Oxygen Demand - 5 Day	MG/L	0 0 3 1 0		
X			X			X			X			Cadmium, Dissolved	UG/L as Cd	0 1 0 2 5	< 0 . 0 1	
X			X			X			X			Chloride, Dissolved	UG/L as Cl	8 2 2 9 5	1 0 . 0	
X			X			X			X			Chromium, Dissolved	UG/L as Cr	0 1 0 3 0		
X			X			X			X			Chromium, Dissolved, Hexavalent	UG/L as Cr	0 1 2 2 0		
												Chemical Oxygen Demand (COD), Dissolved	MG/L	0 0 3 4 1		
												Coliform Group	N/100 ML	7 4 0 5 6		
												Color	Pt - Co	0 0 0 8 0		
X			X			X			X			Copper, Dissolved	UG/L as Cu	0 1 0 4 0		
X			X			X			X			Cyanide, Total	MG/L as CN	0 0 7 2 0		
												Endrin, Total	UG/L	3 9 3 9 0		
		X			X			X				Fluoride, Dissolved	MG/L as F	0 0 9 5 0	1 . 1	
												Gross Alpha, Dissolved	Pc/L	0 1 5 0 3		
												Gross Beta, Dissolved	Pc/L	0 3 5 0 3		
												Hardness, Total as $CaCO_3$	MG/L	0 0 9 0 0		
		X			X			X				Iron, Dissolved	UG/L as Fe	0 1 0 4 6	< 0 . 0 5	
		X			X			X				Lead, Dissolved	UG/L as Pb	0 1 0 4 9	< . 0 0 5	
												Lindane, Total	UG/L	3 9 7 8 2		
		X			X			X				Manganese, Dissolved	UG/L	0 1 0 5 6	< . 0 2	
		X			X			X				Mercury, Dissolved	UG/L	7 1 8 9 0		

VALUE CODING RULES AND
REMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

MW-2

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Apex Facility
SW ID NO.:
LAB NAME: Cooperative Ventures, Inc.

NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
S NJ 0 0 9 9 7 9 1	2 4 - 2 4 2 7 2 - 1	8 9 0 7 2 0	7 7 5 0 5	
1 2 8	9 16	17 22	23 27	28

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 1 8 9 (MO. YR.) TO 1 2 8 9 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
											Methoxychlor, Total	UG/L	39480		
											Methylene Blue Active Substances	MG/L	38260		
		X			X			X			Nitrogen, Ammonia, Dissolved $NH_3 + NH_4$ as N	MG/L as N	00608		
		X			X			X			Nitrogen, Nitrate, Dissolved	MG/L as N	00618	2.5	
											Odor	T.O.N.	00085		
		X			X			X			pH	Standard Units	00400		
											Phenols, Total Recoverable	UG/L	32730		
											Radium 226, Dissolved	Pc/L	09503		
											Radium 228, Dissolved	Pc/L	81366		
		X			X			X			Selenium, Dissolved	UG/L	01145		
		X			X			X			Silver, Dissolved	UG/L	01075		
											Sodium, Dissolved	MG/L	00930		
		X			X			X			Sulfate, Dissolved (as SO_4)	MG/L	00946	116.0	
		X			X			X			Total Dissolved Solids (TDS)	PPM	70300		
											Total Organic Carbon (TOC)	PPM	00680		
											Total Organic Halogen (TOX)	UG/L	70353		
											Toxaphene	UG/L	39400		
											Turbidity	NTU	00076		
		X			X			X			Zinc, Dissolved	UG/L	01090	<0.01	
											2, 4–D, Total	UG/L	39370		
											2, 4, 5–TP, Total	UG/L	39045		
		X			X			X			Phosphate	MG/L			
		X						X			Total Xylene	UG/L			

VALUE CODING RULES AND REMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

m VWX-015-A

NEW J EY DEPARTMENT OF ENVIRONMENTAL PROT ION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

MW-3

GROUND WATER ANALYSIS – MONITORING WELL REPORT

EASE TYPE OR PRINT WITH BALLPOINT PEN

CILITY NAME Apex Facility | SWID NO.

B NAME Cooperative Ventures, Inc.

NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
R NJ 0 0 9 7 9 1 (1, 2–8)	2 4 - 2 4 2 7 1 - 3 (9–16)	8 9 0 6 2 7 (17–22)	7 7 5 0 5 (23–27)	

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 1 8 9 (MO. YR.) TO 1 2 8 9 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
		X			X			X			Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01		340.92	
		X			X			X			Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01		339.4	
		X			X			X			Depth to water table from top of casing prior to sampling with cap off	feet: to nearest .01	82546	34.24	
		X			X			X			Depth to water table from original ground level prior to sampling	feet: to nearest .01	72019	32.72	
		X			X			X			Arsenic, ~~Dissolved~~ Total	UG/L as As	01000	0.008	
		X			X			X			Barium, ~~Dissolved~~ Total	UG/L as Ba	01005	<0.2	
											Biochemical Oxygen Demand - 5 Day	MG/L	00310		
		X			X			X			Cadmium, ~~Dissolved~~ Total	UG/L as Cd	01025	<0.011	
		X			X			X			Chloride, ~~Dissolved~~ Total	UG/L as Cl	82295	16.01	
		X			X			X			Chromium, ~~Dissolved~~ Total	UG/L as Cr	01030	<0.5	
		X			X			X			Chromium, ~~Dissolved~~, Hexavalent Total	UG/L as Cr	01220	<0.5	
											Chemical Oxygen Demand (COD), Dissolved	MG/L	00341		
											Coliform Group	N/100 ML	74056		
											Color	Pt - Co	00080		
		X			X			X			Copper, ~~Dissolved~~ Total	UG/L as Cu	01040	0.002	
		X			X			X			Cyanide, Total	MG/L as CN	00720		
											Endrin, Total	UG/L	39390		
		X			X			X			Fluoride, ~~Dissolved~~ Total	MG/L as F	00950	0.35	
											Gross Alpha, Dissolved	Pc/L	01503		
											Gross Beta, Dissolved	Pc/L	03503		
											Hardness, Total as $CaCO_3$	MG/L	00900		
		X			X			X			Iron, ~~Dissolved~~ Total	UG/L as Fe	01046	16.9	
		X			X			X			Lead, ~~Dissolved~~ Total	UG/L as Pb	01049	<0.005	
											Lindane, Total	UG/L	39782		
		X			X			X			Manganese, ~~Dissolved~~ Total	UG/L	01056	1.67	
		X			X			X			Mercury, ~~Dissolved~~ Total	UG/L	71890	<0.0005	

ALUE CODING RULES AND
EMARK CODES ON REVERSE

* Measured on 6-21-89 by DRAI

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

MW 3

GROUND WATER ANALYSIS – MONITORING WELL REPORT

USE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Apex Facility
SWID NO.:
NAME: Cooperative Ventures, Inc.

NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
S NJ 0099791	24-2427 1-3	89 06 27	77505	

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 01 89 (MO. YR.) TO 12 89 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS (Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.)	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	Methoxychlor, Total	UG/L	39460		
	Methylene Blue Active Substances	MG/L	38260		
X X X	Nitrogen, Ammonia, Dissolved $NH_3 + NH_4$ as N	MG/L as N	00608	<0.1	u
X X X	Nitrate, Nitrate Dissolved	MG/L as N	00618	2.9	
	Odor	T.O.N.	00085		
X X X	pH	Standard Units	00400	7.54	
	Phenols, Total Recoverable	UG/L	32730		
	Radium 226, Dissolved	Pc/L	09503		
	Radium 228, Dissolved	Pc/L	81366		
X X X	Selenium, ~~Dissolved~~ Total	UG/L	01145	<0.005	
X X X	Silver, ~~Dissolved~~ Total	UG/L	01075	<0.02	
	Sodium, Dissolved	MG/L	00930		
X X X	Sulfate, ~~Dissolved~~ (as SO_4) Total	MG/L	00946	187.0	
X X X	Total Dissolved Solids (TDS)	PPM	70300	578.0	
	Total Organic Carbon (TOC)	PPM	00680		
	Total Organic Halogen (TOX)	UG/L	70353		
	Toxaphene	UG/L	39400		
	Turbidity	NTU	00076		
X X X	Zinc, ~~Dissolved~~ Total	UG/L	01090	0.105	
	2, 4–D, Total	UG/L	39370		
	2, 4, 5–TP, Total	UG/L	39045		
X X X	Phosphate	MG/L		0.410	
X X	Total Xylene	UG/L		<5	u

29 33 34 40 41
42 46 47 53 54

...UE CODING RULES AND

FORM VWX-015
83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

MW-3

GROUND WATER ANALYSIS – VOLATILE ORGANICS REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Apex Facility | SW ID NO.:

LAB NAME: Cooperative Ventures, Inc.

NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
T NJ 0099791 (cols 1–8)	24-24271-3 (cols 9–16)	89 06 27 (cols 17–22)	77166 (cols 23–27)	(col 28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 01 89 (MO. YR.) TO 12 89 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
		X						X			Acrylonitrile	UG/L	34215	<50	U
		X						X			Benzene	UG/L	34030	<5	U
		X						X			Bromoform	UG/L	32104	<5	U
		X						X			Carbon Tetrachloride	UG/L	32102	<2.2	U
		X						X			Chlorobenzene	UG/L	34301	<5	U
		X						X			Chlorodibromoethane	UG/L	34306	<5	U
		X						X			Chloroform	UG/L	32106	<5	U
		X						X			1, 1 - Dichloroethane	UG/L	34496	<5	U
		X						X			1, 2 - Dichloroethane	UG/L	34531	<5	U
		X						X			1, 1 - Dichloroethylene	UG/L	34501	<5	U
		X						X			1, 2 - Dichloropropane	UG/L	34541	<5	U
		X						X			Ethylbenzene	UG/L	34371	<5	U
		X						X			Methylene Chloride	UG/L	34423	<5	U
		X						X			1, 1, 2, 2 - Tetrachloroethane	UG/L	34516	<5	U
		X						X			Tetrachloroethylene	UG/L	34475	<5	U
		X						X			Toluene	UG/L	34012	<5	U
		X						X			1, 1, 1 - Trichloroethane	UG/L	34506	<5	U
		X						X			1, 1, 2 - Trichloroethane	UG/L	34511	<5	U
		X						X			Trichloroethylene	UG/L	39180	<5	U
		X						X			Vinyl Chloride	UG/L	39175	<1.5	U
		X						X			Acrolein	UG/L	34210	<50	U
		X						X			Chloroethane	UG/L	34311	<5	U
		X						X			2 - Chloroethylvinyl Ether	UG/L	34576	<5	U
		X						X			Dichlorobromomethane	UG/L	32105	<5	U
		X						X			1, 3 - Dichloropropylene	UG/L	34699	<5	U
		X						X			Methyl Bromide	UG/L	34413	<5	U
		X						X			Methyl Chloride	UG/L	34418	<5	U
		X						X			1, 2 - trans - Dichloroethylene	UG/L	34546	<5	U
											1, 2 Dichlorobenzene	UG/L	34536	<5	U
											1, 3 Dichlorobenzene	UG/L	34566	<5	U
											1, 4 Dichlorobenzene	UG/L	34571	<5	U

VALUE CODING RULES AND REMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

Form VWX-015 A
3/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

MW-3

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Apex Facility | SWID NO.:

LAB NAME: Cooperative Ventures, Inc.

R	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
1	NJ 0099791 (2–8)	24-24271-3 (9–16)	89 07 20 (17–22)	77505 (23–27)	(28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 01 89 (MO. YR.) TO 12 89 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
X			X			X			X			Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01			
X			X			X			X			Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01			
X			X			X			X			Depth to water table from top of casing prior to sampling with cap off	feet: to nearest .01	82546		
X			X			X			X			Depth to water table from original ground level prior to sampling	feet: to nearest .01	72019		
X			X			X			X			Arsenic, Dissolved	UG/L as As	01000	<0.005	
X			X			X			X			Barium, Dissolved	UG/L as Ba	01005		
												Biochemical Oxygen Demand - 5 Day	MG/L	00310		
X			X			X			X			Cadmium, Dissolved	UG/L as Cd	01025		
X			X			X			X			Chloride, Dissolved	UG/L as Cl	82295	13.0	
X			X			X			X			Chromium, Dissolved	UG/L as Cr	01030		
X			X			X			X			Chromium, Dissolved, Hexavalent	UG/L as Cr	01220		
												Chemical Oxygen Demand (COD), Dissolved	MG/L	00341		
												Coliform Group	N/100 ML	74056		
												Color	Pt - Co	00080		
		X			X			X				Copper, Dissolved	UG/L as Cu	01040	<0.02	
		X			X			X				Cyanide, Total	MG/L as CN	00720		
												Endrin, Total	UG/L	39390		
		X			X			X				Fluoride, Dissolved	MG/L as F	00950	0.3	
												Gross Alpha, Dissolved	Pc/L	01503		
												Gross Beta, Dissolved	Pc/L	03503		
												Hardness, Total as $CaCO_3$	MG/L	00900		
		X			X			X				Iron, Dissolved	UG/L as Fe	01046	<0.05	
		X			X			X				Lead, Dissolved	UG/L as Pb	01049	<0.005	
												Lindane, Total	UG/L	39782		
		X			X			X				Manganese, Dissolved	UG/L	01056	<0.02	
		X			X			X				Mercury, Dissolved	UG/L	71890		

VALUE CODING RULES AND REMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

DIVISION OF WATER RESOURCES

'ATER QUALITY MANAGEMENT ELEMEN

GROUND WATER ANALYSIS – MONITORING WELL REPORT

EASE TYPE OR PRINT WITH BALLPOINT PEN

ACILITY NAME Apex Facility — SWID NO.

AB NAME Cooperative Ventures, Inc.

	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
S	NJ 0 0 9 9 7 9 1	2 4 - 2 4 2 7 1 - 3	8 9 0 7 2 0	7 7 5 0 5	
1	2 – 8	9 – 16	17 – 22	23 – 27	28

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 1 8 9 (MO. YR.) TO 1 2 8 9 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
											Methoxychlor, Total	UG/L	39480		
											Methylene Blue Active Substances	MG/L	38260		
		X			X			X			Nitrogen, Ammonia, Dissolved $NH_3 + NH_4$ as N	MG/L as N	00608		
		X			X			X			Nitrogen, Nitrate Dissolved	MG/L as N	00618	2.9	
											Odor	T.O.N.	00085		
		X			X			X			pH	Standard Units	00400		
											Phenols, Total Recoverable	UG/L	32730		
											Radium 226, Dissolved	Pc/L	09503		
											Radium 228, Dissolved	Pc/L	81366		
		X			X			X			Selenium, Dissolved	UG/L	01145		
		X			X			X			Silver, Dissolved	UG/L	01075		
											Sodium, Dissolved	MG/L	00930		
		X			X			X			Sulfate, Dissolved (as SO_4)	MG/L	00946	51.0	
		X			X			X			Total Dissolved Solids (TDS)	PPM	70300		
											Total Organic Carbon (TOC)	PPM	00680		
											Total Organic Halogen (TOX)	UG/L	70353		
											Toxaphene	UG/L	39400		
											Turbidity	NTU	00076		
	X			X			X				Zinc, Dissolved	UG/L	01090	<0.01	
											2, 4–D, Total	UG/L	39370		
											2, 4, 5–TP, Total	UG/L	39045		
	X			X			X				Phosphate	MG/L			
	X						X				Total Xylene	UG/L			

ALUE CODING RULES AND
EMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

T-VWX-015A

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

Attach - 4

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Apex Facility — SWID NO.:

NAME: Cooperative Ventures, Inc.

R	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. | MO. | DAY	NJ LAB CERT. NO.	WQM USE
1	NJ 0 0 9 9 7 9 1 (2–8)	2 4 - 2 4 2 7 0 - 5 (9–16)	8 9 | 0 6 | 2 7 (17–22)	7 7 5 0 5 (23–27)	(29)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 01 / 89 (MO. YR.) TO 12 / 89 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS (Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.)	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
X X X	Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01		342.24	
X X X	Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01		340.70	
X X X	Depth to water table from top of casing prior to sampling with cap off	feet: to nearest .01	82546	33.87	*
X X X	Depth to water table from original ground level prior to sampling	feet: to nearest .01	72019	32.33	
X X X	Arsenic, ~~Dissolved~~ Total	UG/L as As	01000	0.014	
X X X	Barium, ~~Dissolved~~ Total	UG/L as Ba	01005	<0.012	
	Biochemical Oxygen Demand - 5 Day	MG/L	00310		
X X X	Cadmium, ~~Dissolved~~, Total	UG/L as Cd	01025	<0.011	
X X X	Chloride, ~~Dissolved~~ Total	UG/L as Cl	82295	101.0	
X X X	Chromium, ~~Dissolved~~ Total	UG/L as Cr	01030	<0.05	
X X X	Chromium, ~~Dissolved~~, Hexavalent Total	UG/L as Cr	01220	<0.05	
	Chemical Oxygen Demand (COD), Dissolved	MG/L	00341		
	Coliform Group	N/100 ML	74056		
	Color	Pt - Co	00080		
X X X	Copper, ~~Dissolved~~ Total	UG/L as Cu	01040	0.09	
X X X	Cyanide, Total	MG/L as CN	00720	0.02	
	Endrin, Total	UG/L	39390		
X X X	Fluoride, ~~Dissolved~~ Total	MG/L as F	00950	<0.25	
	Gross Alpha, Dissolved	Pc/L	01503		
	Gross Beta, Dissolved	Pc/L	03503		
	Hardness, Total as $CaCO_3$	MG/L	00900		
X X X	Iron, ~~Dissolved~~ Total	UG/L as Fe	01046	24.0	
X X X	Lead, ~~Dissolved~~ Total	UG/L as Pb	01049	0.05	
	Lindane, Total	UG/L	39782		
X X X	Manganese, ~~Dissolved~~ Total	UG/L	01056	1.22	
X X X	Mercury, ~~Dissolved~~ Total	UG/L	71890	<0.00005	

VALUE CODING RULES AND REMARK CODES ON REVERSE

* Measured on 6-21-89 by DRAI

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Apex Facility — SWID NO.:

NAME: Cooperative Ventures, Inc.

	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
S	NJ 0 0 9 9 7 9 1	2 4 - 2 4 2 7 0 - 5	8 9 0 6 2 7	7 7 5 0 5	
1	2 8	9 16	17 22	23 27	28

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 1 8 9 (MO. YR.) TO 1 2 8 9 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS (Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.)	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	Methoxychlor, Total	UG/L	39480		*
	Methylene Blue Active Substances	MG/L	38260		
X X X	Nitrogen, Ammonia, Dissolved $NH_3 + NH_4$ as N	MG/L as N	00608	<0.1	U
X X X	Nitrogen, Nitrate Dissolved	MG/L as N	00618	1.6	
	Odor	T.O.N.	00085		
X X X	pH	Standard Units	00400	7.61	
	Phenols, Total Recoverable	UG/L	32730		
	Radium 226, Dissolved	Pc/L	09503		
	Radium 228, Dissolved	Pc/L	81366		
X X X	Selenium, ~~Dissolved~~ Total	UG/L	01145	<0.005	
X X X	Silver, ~~Dissolved~~ Total	UG/L	01075	<0.02	
	Sodium, Dissolved	MG/L	00930		
X X X	Sulfate, ~~Dissolved~~ (as SO_4) Total	MG/L	00946	481.0	
X X X	Total Dissolved Solids (TDS)	PPM	70300	824.0	
	Total Organic Carbon (TOC)	PPM	00680		
	Total Organic Halogen (TOX)	UG/L	70353		
	Toxaphene	UG/L	39400		
	Turbidity	NTU	00076		
X X X	Zinc, ~~Dissolved~~ Total	UG/L	01090	0.13	
	2, 4–D, Total	UG/L	39370		
	2, 4, 5–TP, Total	UG/L	39045		
X X X	Phosphate	MG/L		1.27	
X X	Total Xylene	UG/L		<5	U

VALUE CODING RULES AND REMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

orm VWX-016
83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – VOLATILE ORGANICS REPORT

MW-4

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Apex Facility — SW ID NO:

LAB NAME: Cooperative Ventures, Inc.

	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
T	NJ 0099791	24-24270-5	89 06 27	77166	
1	2 – 8	9 – 16	17 – 22	23 – 27	28

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 01 89 (MO. YR.) TO 12 89 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.					
X X	Acrylonitrile	UG/L	34215	<50	U
X X	Benzene	UG/L	34030	<5	U
X X	Bromoform	UG/L	32104	<5	U
X X	Carbon Tetrachloride	UG/L	32102	<2.2	U
X X	Chlorobenzene	UG/L	34301	<5	U
X X	Chlorodibromoethane	UG/L	34306	<5	U
X X	Chloroform	UG/L	32106	<5	U
X X	1, 1 - Dichloroethane	UG/L	34496	<5	U
X X	1, 2 - Dichloroethane	UG/L	34531	<5	U
X X	1, 1 - Dichloroethylene	UG/L	34501	<5	U
X X	1, 2 - Dichloropropane	UG/L	34541	<5	U
X X	Ethylbenzene	UG/L	34371	<5	U
X X	Methylene Chloride	UG/L	34423	<5	U
X X	1, 1, 2, 2 - Tetrachloroethane	UG/L	34516	<5	U
X X	Tetrachloroethylene	UG/L	34475	<5	U
X X	Toluene	UG/L	34012	<5	U
X X	1, 1, 1 - Trichloroethane	UG/L	34506	<5	U
X X	1, 1, 2 - Trichloroethane	UG/L	34511	<5	U
X X	Trichloroethylene	UG/L	39180	<5	U
X X	Vinyl Chloride	UG/L	39175	<1.5	U
X X	Acrolein	UG/L	34210	<50	U
X X	Chloroethane	UG/L	34311	<5	U
X X	2 - Chloroethylvinyl Ether	UG/L	34576	<5	U
X X	Dichlorobromomethane	UG/L	32105	<5	U
X X	1, 3 - Dichloropropylene	UG/L	34699	<5	U
X X	Methyl Bromide	UG/L	34413	<5	U
X X	Methyl Chloride	UG/L	34418	<5	U
X X	1, 2 - trans - Dichloroethylene	UG/L	34546	<5	U
	1, 2 Dichlorobenzene	UG/L	34536	<5	U
	1, 3 Dichlorobenzene	UG/L	34566	<5	U
	1, 4 Dichlorobenzene	UG/L	34571	<5	U

VALUE CODING RULES AND REMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

T-VWX-015 A

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Apex Facility | SWID NO.:

LAB NAME: Cooperative Ventures, Inc.

	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
	R	NJ 0099791	24-24270-5	8907 20	77505	
	1	2 8	9 16	17 22	23 27	28

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 01 89 (MO. YR.) TO 12 89 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS (Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.)	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
X X X	Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01			
X X X	Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01			
X X X	Depth to water table from top of casing prior to sampling with cap off	feet: to nearest .01	82546		
X X X	Depth to water table from original ground level prior to sampling	feet: to nearest .01	72019		
X X X	Arsenic, Dissolved	UG/L as As	01000	<0.005	
X X X	Barium, Dissolved	UG/L as Ba	01005		
	Biochemical Oxygen Demand - 5 Day	MG/L	00310		
X X X	Cadmium, Dissolved	UG/L as Cd	01025		
X X X	Chloride, Dissolved	UG/L as Cl	82295	8.0	
X X X	Chromium, Dissolved	UG/L as Cr	01030		
X X X	Chromium, Dissolved, Hexavalent	UG/L as Cr	01220		
	Chemical Oxygen Demand (COD), Dissolved	MG/L	00341		
	Coliform Group	N/100 ML	74056		
	Color	Pt - Co	00080		
X X X	Copper, Dissolved	UG/L as Cu	01040	<0.02	
X X X	Cyanide, Total	MG/L as CN	00720		
	Endrin, Total	UG/L	39390		
X X X	Fluoride, Dissolved	MG/L as F	00950		
	Gross Alpha, Dissolved	Pc/L	01503		
	Gross Beta, Dissolved	Pc/L	03503		
	Hardness, Total as $CaCO_3$	MG/L	00900		
X X X	Iron, Dissolved	UG/L as Fe	01046	<0.05	
X X X	Lead, Dissolved	UG/L as Pb	01049	<0.005	
	Lindane, Total	UG/L	39782		
X X X	Manganese, Dissolved	UG/L	01056	<0.02	
X X X	Mercury, Dissolved	UG/L	71890		

VALUE CODING RULES AND REMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

MW-4

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Apex Facility | SWID NO.:

LAB NAME: Cooperative Ventures, Inc.

NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE (YR. MO. DAY)	NJ LAB CERT. NO.	WQM USE
S NJ0009791	24-24270-E	8 9 07 20	77505	

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 01 89 (MO. YR.) TO 12 89 (MO. YR.)

RECEIVED
AUG 1989

SUBMIT WITH SIGNED T-VWX-014

Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
											Methoxychlor, Total	UG/L	39460		
											Methylene Blue Active Substances	MG/L	38260		
		X			X			X			Nitrogen, Ammonia, Dissolved $NH_3 + NH_4$ as N	MG/L as N	00608		
		X			X			X			Nitrogen, Nitrate, Dissolved	MG/L as N	00618	11.6	
											Odor	T.O.N.	00085		
		X			X			X			pH	Standard Units	00400		
											Phenols, Total Recoverable	UG/L	32730		
											Radium 226, Dissolved	Pc/L	09503		
											Radium 228, Dissolved	Pc/L	81366		
		X			X			X			Selenium, Dissolved	UG/L	01145		
		X			X			X			Silver, Dissolved	UG/L	01075		
											Sodium, Dissolved	MG/L	00930		
		X			X			X			Sulfate, Dissolved (as SO_4)	MG/L	00946	355.0	
		X			X			X			Total Dissolved Solids (TDS)	PPM	70300		
											Total Organic Carbon (TOC)	PPM	00680		
											Total Organic Halogen (TOX)	UG/L	70353		
											Toxaphene	UG/L	39400		
											Turbidity	NTU	00076		
		X			X			X			Zinc, Dissolved	UG/L	01090	<0.011	
											2, 4–D, Total	UG/L	39370		
											2, 4, 5–TP, Total	UG/L	39045		
		X			X			X			Phosphate	MG/L			
		X						X			Total Xylene	UG/L			

VALUE CODING RULES AND REMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68

Appendix B

July 1989

NJDEP Ground Water Analysis Forms

VWX - 015A
VWX - 015B
VWX - 016

For

Apex Facility Monitoring Wells

MW1
MW2
MW3
MW4

Table I

Summary of Ground Water Elevation
Apex Facility - New Village, New Jersey

Monitoring Wells:		MW1	MW2	MW3	MW4
Total Depth of Well (feet below ground surface)		85	60	60	55
Open Hole Interval (feet below ground surface)		45-85	40-60	50-60	30-55
Elevation of Measuring Point (feet, msl)		352.51	341.90	340.92	342.24
Depth to Ground Water from Measuring Point					
Date	Time				
6/7/89	10:30 - 11:00	41.08	36.46	34.80	Dry (Abandoned)
6/8/89	15:00	40.81	36.10	34.41	46.80 (Still Recovering)
6/21/89	8:30	40.26	35.82	34.24	33.87
7/24/89	8:00	40.38	36.35	34.70	34.33
Elevation of Ground Water (feet, msl)					
Date	Time				
6/7/89	10:30 - 11:00	311.43	305.44	306.12	--
6/8/89	15:00	311.70	305.80	306.51	--
6/21/89	8:30	312.25	306.08	306.68	308.37
7/24/89	8:00	312.13	305.55	306.22	307.91

Dan Raviv Associates, Inc.
Job No. 88C576

Table II

Summary of Total and Dissolved Metals
Apex Facility - New Village, New Jersey

Monitoring Well		MW1	MW2	MW3	MW4
Lab ID No.	6-27-89	529	530	531	532
	7-20-89	729	730	731	732
Parameters (ppm)					
Barium	(Total)	<0.2	<0.2	<0.2	<0.2
Cadmium	(Total)	0.05	<0.01	<0.01	<0.01
	(Dissolved)	<0.01			
Chromium	(Total)	<0.05	<0.05	<0.05	<0.05
Copper	(Total)	0.03	<0.02	0.02	0.09
	(Dissolved)	<0.02		<0.02	<0.02
Iron	(Total)	19.8	0.31	16.9	24.0
	(Dissolved)	<0.05	<0.05	<0.05	<0.05
Lead	(Total)	0.03	<0.005	<0.005	0.05
	(Dissolved)	<0.005	<0.005	<0.005	<0.005
Manganese	(Total)	0.49	<0.02	1.67	1.22
	(Dissolved)	<0.02	<0.02	<0.02	<0.02
Silver	(Total)	<0.02	<0.02	<0.02	<0.02
Zinc	(Total)	0.46	0.11	0.05	0.13
	(Dissolved)	<0.01	<0.01	<0.01	<0.01
Arsenic	(Total)	0.02	<0.005	0.008	0.04
	(Dissolved)	<0.005		<0.005	<0.005
Selenium	(Total)	<0.005	<0.005	<0.005	<0.005
Mercury	(Total)	<0.0005	<0.0005	<0.0005	<0.0005

Note: (1) Ground water samples for total metals analysis was collected on June 27, 1989.
(2) Metal analysis for dissolved metals were filtered in the laboratory on July 20, 1989.

Dan Raviv Associates, Inc.
Job No. 88C576

Appendix A

Monitoring Well Logs

Dan Raviv Associates, Inc.
57 E. Willow Street Millburn, NJ 07041

WELL COMPLETION REPORT

WELL NO. MW-1

PROJECT NO.: 86-0575
PROJECT NAME: Victaulic

CONTRACTOR: Somerville Well Drilling
LOCATION: Near Village, New Jersey

SHEET NO. 1 OF 3

GRADE ELEVATION:
START (DATE): 5/31/89
FINISH (DATE): 5/31/89
DRILLER: Nick Geiss
DRAI GEOL.: Alcant

	DRIVE SAMPLER	CORE BARREL
TYPE:		
INSIDE DIAMETER (IN.):		
HAMMER WEIGHT (LB.):		
HAMMER FALL (IN.):		

DRILLING EQUIPMENT & PROCEDURES
RIG TYPE: Ingersoll Rand
BIT TYPE: 10" and 6" Downhole
DRILL MUD: Holeblo Water
SAMPLER TYPE: Spoon

DEPTH (FEET) FROM GRADE	SAMPLER BLOWS PER 6 IN.	SAMPLE NUMBER & RECOVERY	STRATA DEPTH (FEET)	GRAPHIC LOG	VISUAL CLASSIFICATION AND REMARKS
0			1.5		Brown SILTY LOAM, Topsoil -Fill-
2					Blue-gray to Dark Brown GRAVEL some silt, cinders, ash and slag present No odor -Fill Material-
4					
6					
8					
10			10.0		-Fill-
12					Brown SAND some clay, little gravel (weathered crystaline limestone) dry
14					
16					
18					
20					
22					
24					
26					
28					
30					

GROUND WATER LEVEL DATA

DATE	TIME	ELASPED (HOUR)	DEPTH (FEET) FROM GRADE TO: BOTTOM OF CASING	BOTTOM OF HOLE	GROUND WATER
5/31/89	1400	7.0	45	85	39

SUMMARY

OVERBURDEN (LIN FT.) 40
ROCK CORED (LIN FT.) 45
SAMPLES

Dan Raviv Associates, Inc. 57 E. Willow Street Millburn, NJ 07041	WELL COMPLETION REPORT	WELL NO. MW1 SHEET NO. 2 OF 2

DEPTH (FEET) FROM GRADE	SAMPLER BLOWS PER 6 IN.	SAMPLE NUMBER & RECOVERY	STRATA DEPTH (FEET)	GRAPHIC LOG	VISUAL CLASSIFICATION AND REMARKS
32			33.0		Light Blue-Gray GRAVEL little silt, weathered limestone
34					
36					
38					
40			40.0		Limestone Blue-gray, crystalline and competent Jacksonberg Formation
42					
44					6" Steel Casing from 0-45' Portland Cement Grout from 0-45'
46					
48					
50					
52					
54					
56					
58					
60					
62					
64					
66					Dark-Blue Gray layer Rare weathered surfaces and calcite veining.
68					
70					

Dan Raviv Associates, Inc.
57 E. Willow Street Millburn, NJ 07041

WELL COMPLETION REPORT

WELL NO. [illegible] 1

SHEET NO. 3 OF 3

DEPTH (FEET) FROM GRADE	SAMPLER BLOWS PER 6 IN.	SAMPLE NUMBER & RECOVERY	STRATA DEPTH (FEET)	GRAPHIC LOG	VISUAL CLASSIFICATION AND REMARKS
72					
74					
76					
78					
80					
82					Fractured zone and mud seam
84					Well yield ~7-10 gpm
86					"D&T" well at 85'
88					
90					
92					
94					
96					
98					
100					
102					
104					
106					
108					
110					

Dan Raviv Associates, Inc.
57 East Willow Street, Millburn, New Jersey 07041

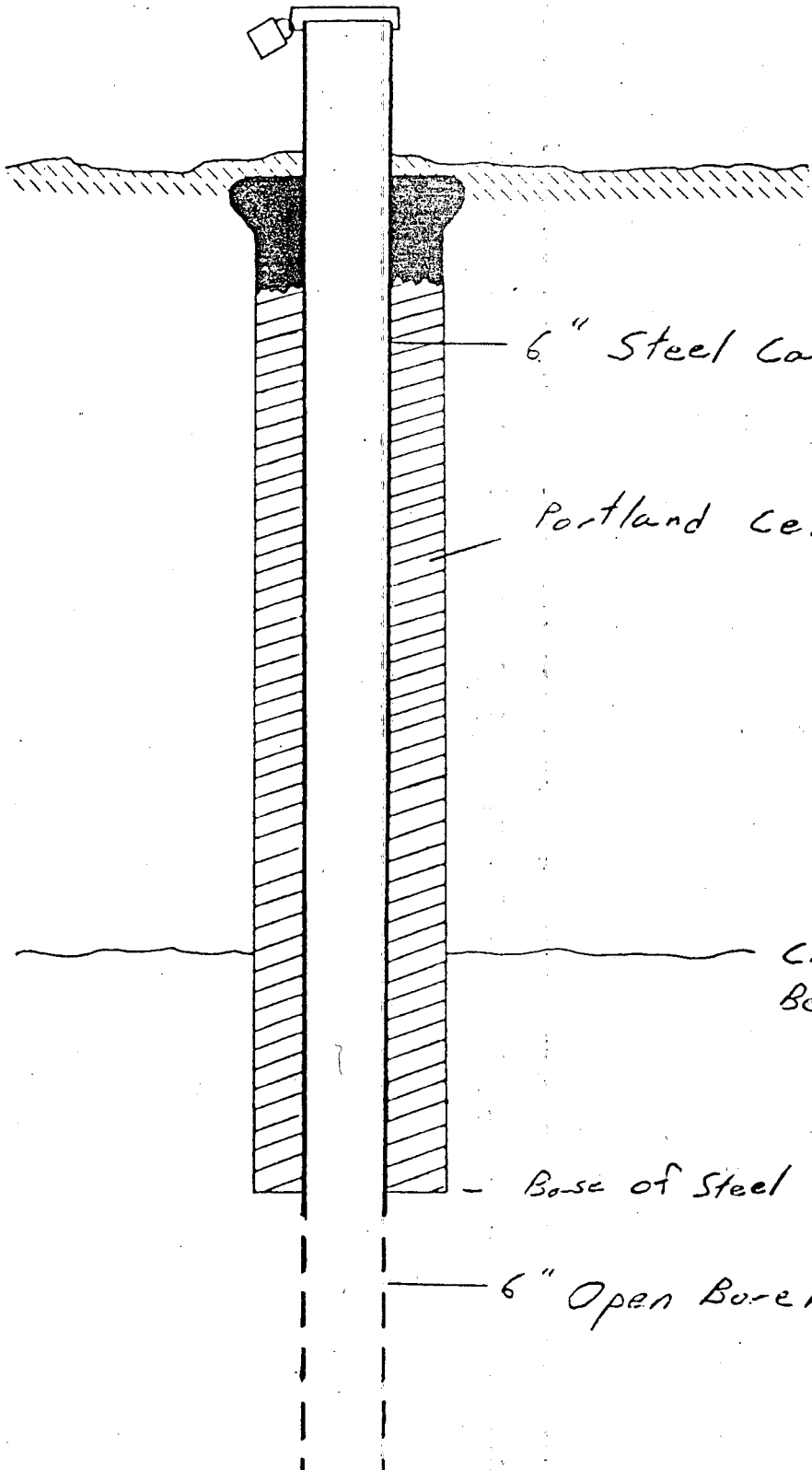
Page 1 of 1

Job No. 89C576

PROJECT Victaulic SUBJECT Monitoring Wells

COMPUTATION Schematic Monitoring Well Diagram MW1

COMPUTED BY AL DATE 6/13/89 CHECKED BY _____ DATE _____



Dan Raviv Associates, Inc. 57 E. Willow Street Millburn, NJ 07041	WELL COMPLETION REPORT	WELL NO. MW 2 SHEET NO. 1 OF 2

PROJECT NO.: 88C576
PROJECT NAME: Victaulic
CONTRACTOR: Summerville Well Drilling
LOCATION: New Village

GRADE ELEVATION:
START (DATE): 6/1/88
FINISH (DATE): 6/1/88
DRILLER: Mack Geisler
DRAI GEOL.: E Lent

	DRIVE SAMPLER	CORE BARREL
TYPE:		
INSIDE DIAMETER (IN.):		
HAMMER WEIGHT (LB.):		
HAMMER FALL (IN.):		

DRILLING EQUIPMENT & PROCEDURES
RIG TYPE: Ingersoll Rand
BIT TYPE: 6 and 10" Carbide
DRILL MUD: Potable Water Hand
SAMPLER TYPE:

DEPTH (FEET) FROM GRADE	SAMPLER BLOWS PER 6 IN.	SAMPLE NUMBER & RECOVERY	STRATA DEPTH (FEET)	GRAPHIC LOG	VISUAL CLASSIFICATION AND REMARKS
2					Dark Brown SILT some clay, little gravel, cinders, concrete and slag present Fill Material no odor
4					
6					
8			9.0		-Fill-
10					Light Brown CLAY, little gravel, trace sand, dry; gravel weathered limestone; Clay is slightly micaceous
12					
14					
16					
18					
20			21.0		
22					Light Brown CLAY, trace gravel and sand moist
24			25.0		
26					Blue-Gray GRAVEL some clay Weathered Crystalline Limestone
28					
30					

GROUND WATER LEVEL DATA

DATE	TIME	ELASPED (HOUR)	DEPTH (FEET) FROM GRADE TO: BOTTOM OF CASING	BOTTOM OF HOLE	GROUND WATER
6/1/88	1200	6.5	40	60	34'

SUMMARY
OVERBURDEN (LIN FT.) 35
ROCK CORED (LIN FT.) 25
SAMPLES

Dan Raviv Associates, C.
57 E. Willow Street Millburn, NJ 07041

WELL COMPLETIC REPORT

WELL NO. [illegible]
SHEET NO. 2 OF 2

DEPTH (FEET) FROM GRADE	SAMPLER BLOWS PER 6 IN.	SAMPLE NUMBER & RECOVERY	STRATA DEPTH (FEET)	GRAPHIC LOG	VISUAL CLASSIFICATION AND REMARKS
32			32.0		Black - Dark Blue GRAVEL & Mix. Clay dry weathered limestone.
34			35.0		Limestone, Blue Gray - Dark Blue Gray Crystalline, competent Dark Fine 30 sec/5' - Jacksonburg Formation
36					
38					0-40' 6" Steel Casing
40					0-40' Portland Cement Grout
42					
44					
46					Rare calcite veining and weathered surfaces.
48					
50					
52					Well Yield 0 gpm
54					
56					Mud Seam and Fractured Zone
58					
60					Well Yield > 10 gpm
62					TD of well at 60'
64					
66					
68					
70					

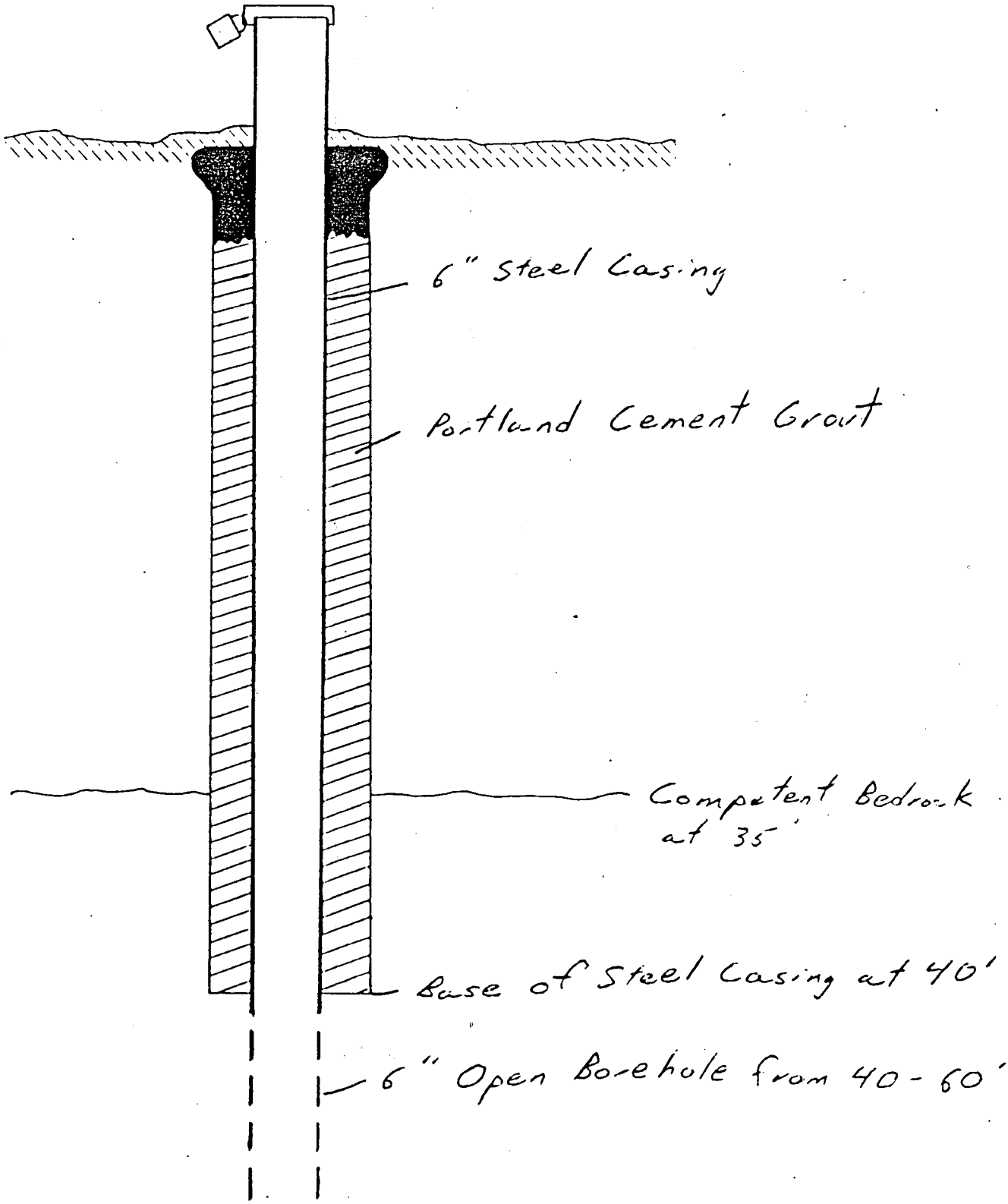
Dan Raviv Associates, Inc.
57 East Willow Street, Millburn, New Jersey 07041

Job No. 88C576

PROJECT Victaulic SUBJECT Monitoring Wells

COMPUTATION Schematic Monitoring Well Diagram MW2

COMPUTED BY AL DATE 6/13/89 CHECKED BY _____ DATE _____



Dan Raviv Associates, Inc. 57 E. Willow Street Millburn, NJ 07041	WELL COMPLETION REPORT	WELL NO. A-W-3 SHEET NO. 1 OF

PROJECT NO.: 880576
PROJECT NAME: Verona
CONTRACTOR: Sommerville well Drilling
LOCATION: Verona Village, New Jersey

GRADE ELEVATION:
START (DATE): 6/1/89
FINISH (DATE): 6/2/89
DRILLER: Dick Gessler
DRAI GEOL.: Brent

	DRIVE SAMPLER	CORE BARREL	DRILLING EQUIPMENT & PROCEDURES
TYPE: INSIDE DIAMETER (IN.): HAMMER WEIGHT (LB.): HAMMER FALL (IN.):			RIG TYPE: Ingersoll Rand BIT TYPE: 6 1/2" Drywhole Hammer DRILL MUD: Air Rotary Bit SAMPLER TYPE:

DEPTH (FEET) FROM GRADE	SAMPLER BLOWS PER 6 IN.	SAMPLE NUMBER & RECOVERY	STRATA DEPTH (FEET)	GRAPHIC LOG	VISUAL CLASSIFICATION AND REMARKS
2					Black SILTY CLAY, moist ashes, cinders, metal present F.11 Material- -F.11-
4			4.0		
6					Light Brown CLAY, cohesive
8					
10					
12					
14			15.0		
16					Light Brown CLAY, trace sand and silt; clay is slightly micaeous Slightly damp
18					
20					
22					
24					
26					
28					
30					

GROUND WATER LEVEL DATA

DATE	TIME	ELASPED (HOUR)	DEPTH (FEET) FROM GRADE TO: BOTTOM OF CASING	BOTTOM OF HOLE	GROUND WATER
6/1/89	1600	10.0	50	60	33.12

SUMMARY

OVERBURDEN (LIN FT.) 46
ROCK CORED (LIN FT.) 14
SAMPLES

Dan Raviv Associates, ...c.
57 E. Willow Street Millburn, NJ 07041

WELL COMPLETIO.. REPORT

WELL NO. [illegible]
SHEET NO. 2 OF 2

DEPTH (FEET) FROM GRADE	SAMPLER BLOWS PER 6 IN.	SAMPLE NUMBER & RECOVERY	STRATA DEPTH (FEET)	GRAPHIC LOG	VISUAL CLASSIFICATION AND REMARKS
32			[illegible]		Light - Brown Silt + trace gravel (weathered limestone)
34					
36					
38					
40					
42					
44					Drill Time 20sec/ft
46			46.0		Blue-Gray Limestone, Crystalline Competent Jacksonburg Formation
48					
50					0-50' 6" Steel Casing 0-50' Portland Cement Grout
52					
54					
56			58.5		Mud Foam and Fractured Zone Well Yield ~30gpm
58					TD of well at 50'
60					
62					
64					
66					
68					
70					

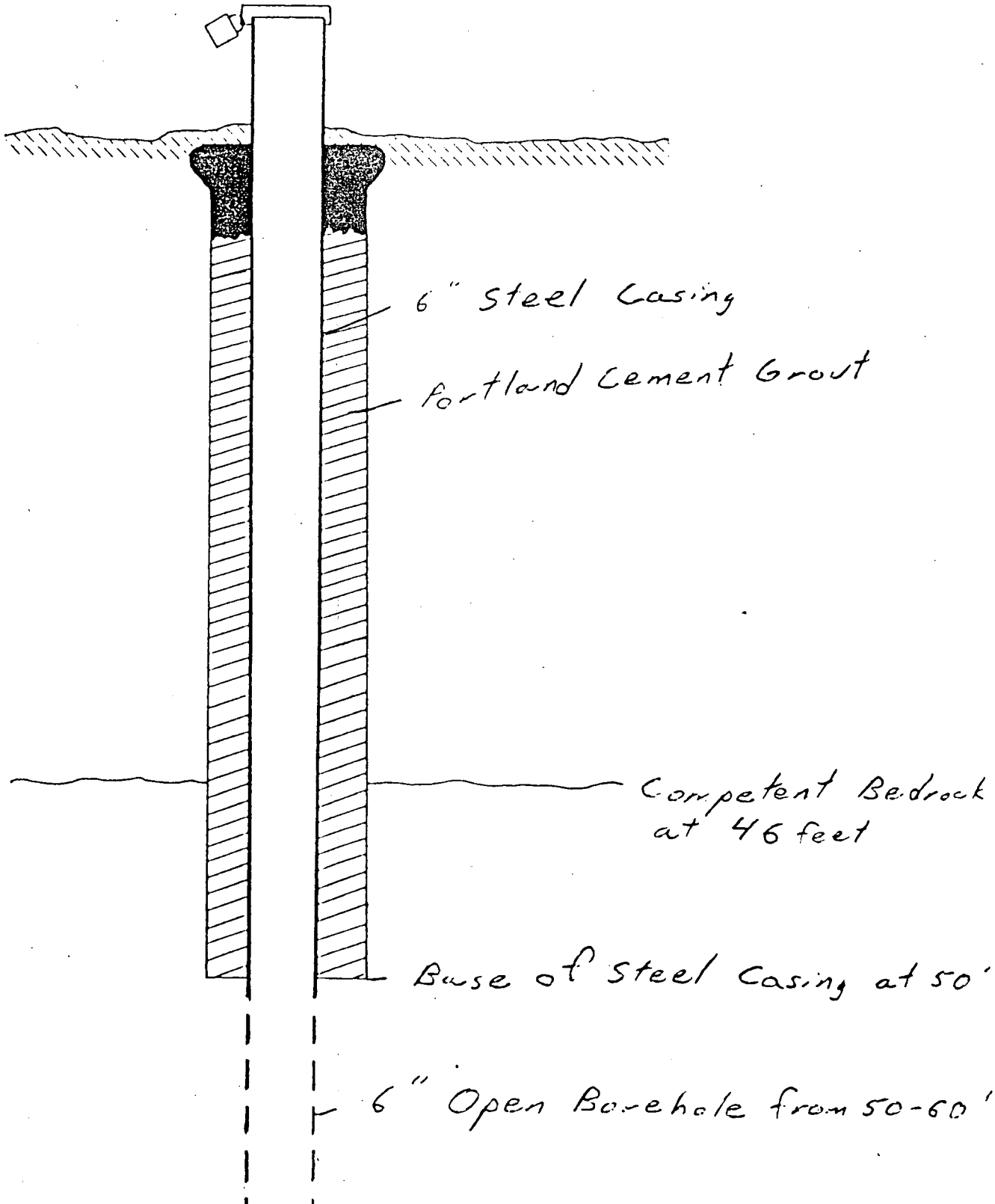
Dan Raviv Associates, Inc.
57 East Willow Street, Millburn, New Jersey 07041

Job No. 88C576

PROJECT Victaulic SUBJECT Monitoring Wells

COMPUTATION Schematic Monitoring Well Diagram MW3

COMPUTED BY AL DATE 6/13/89 CHECKED BY _____ DATE _____



Dan Raviv Associates, Inc.
57 E. Willow Street Millburn, NJ 07041

WELL COMPLETION REPORT

WELL NO. [illegible]

PROJECT NO.: [illegible]
PROJECT NAME: Jacobus

CONTRACTOR: Sommerville Well
LOCATION: Dr. [illegible]
New Village, New Jersey

SHEET NO. 1 OF 2

GRADE ELEVATION:
START (DATE): 5/7/84
FINISH (DATE): 5/8/84
DRILLER: M. Gingerich
ORAL GEOL.: R. Lent

	DRIVE SAMPLER	CORE BARREL	DRILLING EQUIPMENT & PROCEDURES
TYPE:			RIG TYPE: Ingersoll Rand
INSIDE DIAMETER (IN.):			BIT TYPE: 12" Roller Bit and 6"
HAMMER WEIGHT (LB.):			DRILL MUD: Potable Water
HAMMER FALL (IN.):			SAMPLER TYPE: shovel

DEPTH (FEET) FROM GRADE	SAMPLER BLOWS PER 6 IN.	SAMPLE NUMBER & RECOVERY	STRATA DEPTH (FEET)	GRAPHIC LOG	VISUAL CLASSIFICATION AND REMARKS
2					Black CLAY, some silt, cinders, ash and slag present. No odor. Fill material. Quite moist.
4			4.0		-Fill-
			4.5		Mine Red GRAVEL, slag present -Fill-
6					Orange-Brown CLAY, dry
8					
10			10.0		
12					Orange-Brown SAND, some clay, trace gravel (weathered limestone and gneiss) dry.
14					
16					
18					
20			20.0		
22					Dark Blue-Gray GRAVEL, little silt (Weathered Limestone)
24					
			25.0		
26					Limestone, dark Blue-Gray, crystalline and competent Jacksonburg Formation
28					6" Steel Casing from 0-30'
30					Portland Cement Grout from 0-30'

GROUND WATER LEVEL DATA

DATE	TIME	ELASPED (HOUR)	DEPTH (FEET) FROM GRADE TO: BOTTOM OF CASING	BOTTOM OF HOLE	GROUND WATER
5/7/84	1400	11.0	30	55	~35

SUMMARY

OVERBURDEN (LIN FT.) 25
ROCK CORED (LIN FT.) 30
SAMPLES -

Dan Raviv Associates, inc. 57 E. Willow Street Millburn, NJ 07041	WELL COMPLETION REPORT	WELL NO. MW 4 SHEET NO. 2 OF 2

DEPTH (FEET) FROM GRADE	SAMPLER BLOWS PER 6 IN.	SAMPLE NUMBER & RECOVERY	STRATA DEPTH (FEET)	GRAPHIC LOG	VISUAL CLASSIFICATION AND REMARKS
32					
34					
36					
34					
40					Banding and weathered surfaces present
42					
44					
46					
48					
50					Well yield at ~0.5 gpm
52					
54					
56					TD of Well at 55'
58					
60					
62					
64					
66					
69					
70					

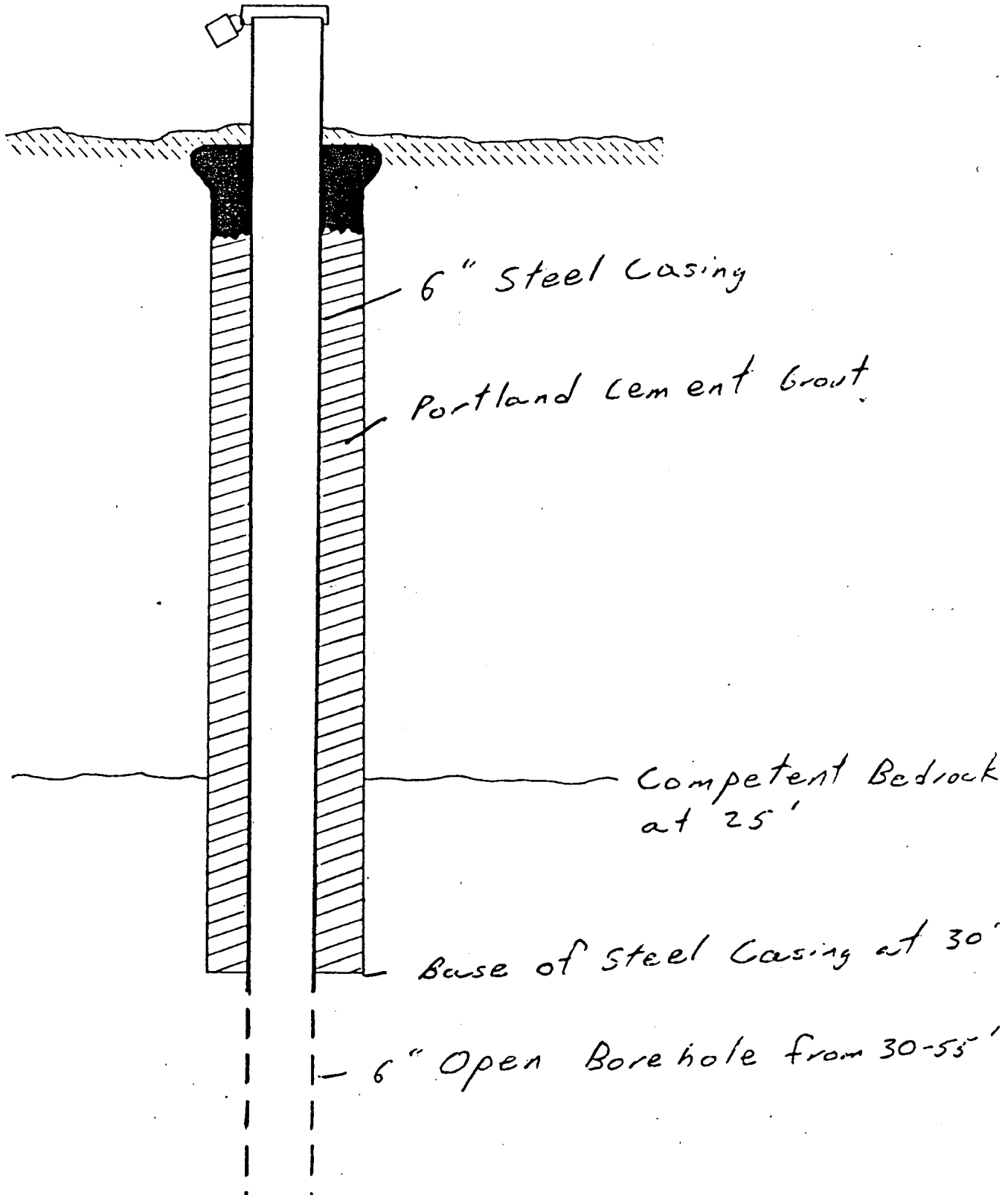
Dan Raviv Associates, Inc.
57 East Willow Street, Millburn, New Jersey 07041

Job No. 8805'76

PROJECT Victaulic SUBJECT Monitoring Wells

COMPUTATION Schematic Monitoring Well Diagram MW 4

COMPUTED BY AL DATE 6/13/89 CHECKED BY _____ DATE _____



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DANIELE CERVINO
JAY A. JAFFE
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LAWRENCE F. JACOBS
JOHN P. QUIRKE

October 16, 1991

Via Federal Express

Arnold Schiffman, Assistant Director
Groundwater Quality Management Element
Division of Publicly Funded Site Remediation
New Jersey Department of Environmental Protection and Energy
CN 029
Trenton, New Jersey 08625-0029

Re: **Request for Adjudicatory Hearing**
Major Modification of NJPDES Permit No.: NJ0099791
Permittee: Victaulic Company of America
Premises: Apex Galvanizing Facility
Edison Road, Franklin Township
Warren County, New Jersey
Lot 1.01 Block 27
Our file no.: 850401

Dear Mr. Schiffman:

We are environmental counsel for Victaulic Company of America ("Victaulic"), the referenced NJPDES permittee. Victaulic is located at 4901 Kesslerville Road in Easton, Pennsylvania.

Request for Hearing

In line with the requirements of the referenced NJPDES Permit ("Permit"), we are writing to request an adjudicatory hearing to reconsider and contest the conditions of the Permit. This request follows the procedures outlined in N.J.A.C. 7:14A-8.9.

We received the Major Modification of NJPDES/Discharge to Groundwater Permit No. NJ0099791 on September 20, 1991. The major modification has an issuance date of September 1, 1991 and an effective date of October 1, 1991.

This request for an adjudicatory hearing is to contest the following Permit conditions:

1. The issuance of the Permit in Compliance Monitoring status; and

2. The failure of the New Jersey Department of Environmental Protection and Energy ("DEPE") to address off-site sources of discharges to the regulated unit affecting groundwater quality at Victaulic's premises.

Both these conditions were contested during the public comment period in accordance with the provisions of N.J.A.C. 7:14A-8.4.

Basis for Request

As set forth in Victaulic's comments to the draft major modification submitted to DEPE on June 6, 1991, Victaulic, in comment number nine, contested the issuance of the Permit in Compliance Monitoring status rather than Detection Monitoring.

DEPE's response to comment nine is conclusory and fails to address the concerns raised in comment nine. Victaulic maintains that the sampling data, obtained pursuant to the permit, does not indicate that Victaulic's regulated unit is the source of the "possibility of contamination" which has already been detected. The placement of the monitoring wells is such that their purpose is not merely to monitor groundwater quality but also to trace the source of any contamination detected.

As is also set forth in Victaulic's comments, Victaulic, in comment ten, contests DEPE's failure to address the past and present discharges to the "regulated unit" not under the control of Victaulic which contribute to the "possibility of contamination."

DEPE's response to comment ten merely states that the permittee is responsible to ascertain background groundwater quality and that the monitored chemical parameters are not likely to be effected by the additional sources. Victaulic maintains that since its discharge terminated over three years ago that the monitoring of groundwater quality does not serve to monitor the effect of Victaulic's prior discharge to the regulated unit but rather monitors the effect on groundwater of these other contributory sources not under the control of Victaulic.

Proposed Revisions to the Permit

The Permit should be modified to address the concerns noted in comments nine and ten. We propose the following revisions to the Permit:

1. The Permit should be issued in Detection Monitoring status.

2. The Permit should include a provision that Victaulic should not be responsible for contamination attributed to sources other than its own former discharge.

We estimate that the hearing to address the concerns outlined above would require approximately two days. Victaulic remains willing to negotiate a settlement with DEPE prior to processing of the hearing request to the Office of Administrative Law.

In line with the requirements of the Permit, here is a completed Administrative Hearing Request and Tracking Form for Permits.

Victaulic reserves the right to raise any and all issues necessary for just adjudication of this matter.

If you have any questions concerning this request for an adjudicatory hearing, please contact us immediately by telephone so that we may provide you with a swift response.

Richard J. Ericsson
LFJ:cer
Enclosure
cc: Victaulic Company of America
Franklin Industrial Park
Michael Infanger
Richard J. McManus, Director, Office of Legal Affairs

Administrative Hearing Request Checklist and Tracking Form for Permits

I. Permit Being Appealed:

Major Modification of NJPDES Permit No. NJ0099791 Discharge to Groundwater
Title and Type of Permit

September 1, 1991
Issuance Date of Permit

NJ0099791
Permit Number

II. Person Requesting Hearing:

Victaulic Company of America
Name

P.O. Box 31

Easton, Pennsylvania 18402
Address

Richard J. Ericsson, Esq.
Name of Attorney (if applicable)

Farer Siegal Fersko

600 South Avenue, Westfield, New Jersey 07090
Address of Attorney

III. Please Include the Following Information as Part of Your Request

A. The date the permittee received the final permit;
B. A list of all permit conditions and issues contested;
C. The legal and factual questions at issue;
D. A statement as to whether or not the permittee raised each legal and factual issue during the public comment period;
E. Suggested revised or alternative permit conditions;
F. An estimate of the time required for the hearing;
G. A request, if necessary, for a barrier free hearing location for physically disabled persons;
H. A clear indication of any willingness to negotiate a settlement with the Department prior to the Department's processing of your hearing request tot he Office of Administrative Law; and
I. This form, completed, signed, and dated, with all of the information listed above, including statements, to:

1. Arnold Schiffman, P.G., Assistant Director
   Ground Water Quality Management Element
   CN-029
   Trenton, NJ 08625

2. Richard J. McManus, Director, Office of Legal Affairs
   CN-402
   Trenton, NJ 08625

3. All co-permittees, if applicable (with attachments)

IV. Signature: Richard J. Ericsson **Date:** 10/16/91

Richard J. Ericsson

CENTRAL FIL
(04)

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REBECCA C. CRONEBERGER
DANIELE CERVINO
JAY A. JAFFE
BETH D. POLLACK
ANDREW W. KRANTZ
LAWRENCE F. JACOBS

June 6, 1991

Via Telecopier and Federal Express

Arnold Schiffman, Assistant Director
Ground Water Quality Management Element
Division of Water Resources
New Jersey Department of Environmental Protection
401 East State Street, 3rd Floor East
Trenton, New Jersey 08608

Re: Draft Major Modification
NJPDES Permit No. NJ0099791
Victaulic Company of America
Apex Galvanizing Facility
Premises: Edison Road
Franklin Township
Warren County, New Jersey
Our file no. 850401

Dear Mr. Schiffman:

We are environmental counsel for Victaulic Company of America ("Victaulic").

We are writing to provide comments to you regarding the referenced draft major modification of Victaulic's NJPDES Permit ("permit modification") for its Apex Galvanizing facility, issued by the New Jersey Department of Environmental Protection ("DEP") on April 22, 1991. We have been advised by Michael Infanger of your office that, pursuant to a request by co-permittee Franklin Industrial Park, the public comment period for this permit modification has been extended until June 10, 1991.

These comments include a summary of discussions held on May 15, 1991 with Michael Infanger and Stephen Urbanik of DEP and our subsequent May 24, 1991 conference call with Michael Infanger, during which an agreement was reached on revisions to the ground-water investigation requirements set forth in the draft major modification of the permit.

FARER SIEGAL FERSKO
A PROFESSIONAL ASSOCIATION
ATTORNEYS AT LAW

Here are Victaulic's comments on the permit modification:

Groundwater Investigation

1. As set forth in the prior discussions, Victaulic proposes an alternative groundwater investigation scheme replacing the requirements set forth in Part III, Paragraphs 1 and 2 of the permit modification as follows:

   (a) The permit modification will be revised to require the installation of one groundwater monitoring well to the north of and adjacent to the tunnel. This well will serve as a downgradient monitoring well to determine the effect of prior discharges to the tunnel on groundwater. This well will be specifically located in the vicinity of the tunnel soil sampling point VIC 3 (as identified in the September, 1990 soil investigation report prepared by Eastern Remedial Environmental Services, Inc.). Subsequent to its installation, this well will be sampled along with Victaulic's production wells.

   (b) An additional groundwater monitoring well downgradient of the tunnel will only be required if analysis of samples from the well referred to above show cadmium to be at a level of three times the groundwater standard of .01 parts per million ("ppm").

2. The requirement and time frames for the commencement of the portion of the groundwater investigation related to levels of cadmium found in MW-1, as set forth in Part III, Paragraph 1 of the permit modification will be revised to require the installation of additional monitoring wells necessary to "delineate the plume" within approximately 60 days of the agreement between DEP and Victaulic on the details of a groundwater investigation proposal. This will allow for the best use of the information developed during the initial phase of the groundwater investigation, as well as allow for DEP's participation in the placement of additional groundwater monitoring wells.

3. The requirement for sampling any of the monitoring wells for volatile organic compounds will be deleted from Part III, Paragraph 11 of the permit modification, since Victaulic did not use volatile organic compounds in its process in a manner which could have had a substantial effect on its discharge.

4. The requirement for further sampling of existing monitoring wells MW-3 and MW-4 set forth in Part III, Paragraph 11 of the permit modification will be deleted, as several years of quarterly sampling of those wells has shown no contaminants above those levels found acceptable to DEP.

5. The requirement for the submission of a Tier II quality assurance/quality control data package along with results of analysis of samples as set forth in Part III, Paragraph 5 and Part III, Paragraph 11 Note B of the permit modification will be deleted since the Tier II QA/QC reports essentially only relate to analysis of samples for volatile organic compounds.

6. The requirement for notification to the Assistant Director of any excursions from the groundwater standards as set forth in Part III, Paragraph 9 of the permit modification will be revised to relate only to such excursions identified in new groundwater monitoring wells not previously required by the present permit.

7. The requirement set forth in Part III, Paragraph 11 of the permit modification for the analysis of samples from the groundwater monitoring wells for manganese, sulfates and total dissolved solids will be revised to apply only to the sampling of any new monitoring well installed pursuant to the permit modification.

Enforcement of Groundwater Standards

8. The permit modification at Part III, Paragraphs 8 through 11 refers to the groundwater protection standards set forth at Part III, Paragraph 11. During our discussions with Michael Infanger, he indicated that groundwater monitoring sample results that exhibit levels of parameters exceeding the

permit's groundwater protection standards would not place the permittees in violation of the permit, result in DEP taking any enforcement action against the permittees nor result in the assessment of penalties against the permittees. In his comments Mr. Infanger added that such sample results may only lead to further investigation of the source or extent of the contamination identified.

The permit modification does not expressly incorporate Mr. Infanger's comments. Since the permit modification is being issued for past discharges and other discharges beyond Victaulic's control, the permit modification should expressly state that any sample results that exhibit levels of parameters that exceed groundwater protection standards could only result in a requirement for further investigation as to the source or extent of contamination identified, and that DEP will not hold the permittees to be in violation of the permit, commence any enforcement action against the permittees or assess any penalties against the permittees.

Compliance v. Detection Monitoring

9. The April 22, 1991 correspondence of Mary Ann Kuserk, Acting Chief of the Bureau of Groundwater Discharge Control, issued with the permit modification states that the permit modification is being issued in compliance monitoring status. The monitoring presently being conducted pursuant to the requirements of the existing permit issued on February 25, 1988 is detection monitoring. This was confirmed by the October 11, 1990 correspondence to us from Dawn M. Strano of the Division of Water Resources.

Our position is that the monitoring to be conducted pursuant to the permit modification continues to be detection monitoring. Detection monitoring is defined in the Water Pollution Control Act Regulations at N.J.A.C. 7:14A-1.8 (d) as monitoring performed to determine whether or not current or past discharges have resulted in an impact on the environment. This is consistent with the nature of the monitoring presently being conducted pursuant to the existing permit.

DEP addressed this issue in response to a comment received during the public comment period for the NJPDES fee regulations in the April 2, 1991 issue of The New Jersey Register (22 N.J.R. 1127), which states:

> Dectection Monitoring . . . is designated to determine if the regulated active discharge to groundwater or past discharge activity has impacted groundwater quality. The permittee who does not have an active regulated groundwater discharge and is simply monitoring its site to detect the possibility of contamination is considered to be in detection monitoring.

MW-1 was installed pursuant to the requirements of the existing permit as an upgradient well. Based upon the piezometric surface elevation and groundwater flow direction map set forth in the August 8, 1989 report of well installation prepared on behalf of Victaulic by Dan Raviv Associates, Inc., MW-1 is 400 feet in an upgradient direction from the beginning of the tunnel or "regulated unit" that accepted Victaulic's past discharge. This well is also almost 2000 feet in an upgradient direction from the ultimate discharge point of the "regulated unit", that is, the basement of the concrete ruins located to the west/southwest of Victaulic's facility. There is no evidence based upon what is known about groundwater flow that any of the elevated levels of cadmium observed in MW-1 are related to Victaulic's past discharge to the "regulated unit". This is confirmed by the lack of any excursions from the cadmium permit limitations in any of the wells that are specifically downgradient of the "regulated unit", including MW-2.

In our discussions with Michael Infanger, he pointed to N.J.A.C. 7:14A-6.15(b) as the support for DEP's determination that monitoring under the permit modification should be compliance monitoring. That regulation, at 6.15(b)1i states that compliance monitoring is required when "hazardous constituents . . . from a regulated unit . . . are detected . . . ." No technical evidence from the existing monitoring wells supports

a supposition that the elevated levels of cadmium in MW-1 are related to Victaulic's "regulated unit". Any such supposition is entirely inconsistent with the clear definition in the regulation of detection monitoring, as well as DEP's position that additional monitoring should be conducted, because it remains unclear as to whether Victaulic's prior discharge to its "regulated unit" has had any effect on groundwater in the area.

Discharges Not Controlled by Victaulic

10. The tunnel complex, which accepted the prior discharge of Victaulic's Apex Facility, also serves as the drainage point for the industrial discharges of several other industrial establishments located in the vicinity of the Apex Facility, notably Franklin Steel Company and Henkles & McCoy, Inc. Some of these industrial discharges originate from the storage yards and heavy equipment parking areas of these industrial establishments and may include a variety of contaminants.

In addition to the industrial discharges described above, storm water runoff from County Route 633 (Edison Road) and the Conrail railroad tracks and abandoned railroad station has for decades been discharged into the tunnel. Along with improvements made several years ago by the Warren County Road Department, new storm drains were installed along County Route 633, which collect storm water runoff from Route 633 and from the Conrail railroad tracks and abandoned railroad station, which discharge directly into the tunnel immediately downgradient from the Apex Facility. This county drainage system, including its connection to the tunnel, is identified and described on Sheet 5 of 19 of the Warren County Road Department Map entitled "Map of Improvements to County Route 633", which was provided to DEP as part of Victaulic's comments to the original permit in February, 1988.

In addition to the industrial discharges and county drainage system discharge described above, several other tunnels connected to surrounding buildings, which are part of the original tunnel complex direct storm water runoff from several

abandoned industrial establishments directly into the tunnel, both upgradient and downgradient of the Apex Facility. The tunnel complex also serves as a central drainage point for approximately 50 acres of fields surrounding the Apex Facility which are used for agricultural purposes.

The effect of all of the past and present discharges to the tunnel, which is considered Victaulic's "regulated unit", obfuscate the effect Victaulic's prior discharge may have had on the environment, and make it difficult, if not impossible, to clearly relate any specific condition observed in the groundwater to Victaulic's prior discharge. The permit modification does not provide a mechanism for addressing these concerns so as not to charge the permittees with responsibility for the environmental effects of past or present discharges that it could not or can not control.

Please contact us prior to the issuance of the final permit modification if you have any questions concerning these comments.

Richard J. Ericsson
RJE:bam
cc: Victaulic Company of America

Let's protect our earth

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
NORTHERN BUREAU OF REGIONAL ENFORCEMENT
1259 Route 46, Building 2
Parsippany, New Jersey 07054

(201) 299-7592
Fax # (201) 299-7719

~~ETMR~~
04
NJ0099791

JUN 6 - 1991

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

David S. Bugby
Vice President of Manufacturing
Victaulic Company of America
P.O. Box 31
4901 Kesserville Road
Easton, Pennsylvania 18042

Dear Mr. Bugby:

Re: Compliance Evaluation Inspection
Victaulic Company of America - Apex Facility
NJPDES No.: NJ0099791
Class: DGW-I/P Lag.-Ind.
Munic/County: Franklin Township, Warren County

A Compliance Evaluation Inspection of your facility was conducted by a representative of this Division on April 24, 1991. A copy of the completed inspection report form is enclosed for your information.

Your facility received a rating of "CONDITIONALLY ACCEPTABLE" due to the following deficiencies:

1. The following parameter failed to achieve Permit limitations for Discharge Sample I01 listed in the Table on page 1 of 10, Part III-DGW-I of your New Jersey Pollutant Discharge Elimination System (NJPDES) Permit:

Parameter	Discharge Limit	Reported Data	Reporting Period
Fluoride	4.0 mg/l	7.1 mg/l	October 1990

2. The following parameters failed to achieve the standards for monitoring wells listed in Table 1 on page 7 and 8 in Part III-DGW of your NJPDES Permit:

Please be advised that the information cited in this Directive reflects the conditions of NJPDES-DGW Permit No. NJ00997991 issued on March 1, 1988. The conditions of this Permit are in effect and are fully enforceable during the public notice period for the draft major modification and until a final Permit is issued by the Department.

Both the New Jersey Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and the Federal Water Pollution Control Act, as amended (33 U.S.C. 466 et seq.) provide for substantial penalties in cases of Permit violations.

Please direct all correspondence and inquiries to the writer, who can be reached at (201) 299-7592 or by letter through this Division.

Very truly yours,

Mitchell Reicher
Environmental Specialist
Ground Water and Safe Drinking
Water Enforcement
Northern Bureau of Regional
Enforcement

MR:dc

Enclosure

c: Chief Joseph M. Mikulka, Northern Bureau of Regional Enforcement
Robert Plumb, Section Chief, Northern Bureau of Regional Enforcement
Patrick Durack, USEPA - Region II
Chief, Permits Administration Branch, USEPA - Region II
Michael Infanger, Bureau of Ground Water Discharge Control
Ron Eroh, Victaulic Co.
Bruce Host, Victaulic Co.
Cindy DeAngelo, Warren County Health Department

bc: Mitch Reicher
Bureau File THRU M. Reicher
Central File/NJPDES: NJ0099791
Enforcement Actions (Virginia Kennedy) DGW - I/P Lag.

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
CN 029, Trenton, N.J. 08625

DISCHARGE SURVEILLANCE REPORT

PERMIT # NJ0099791 NO. OF DISCHARGES 06W CLASS I/P Lagoon

DISCHARGER Victaulic Company of America

OWNER Victaulic Co. (Facility Owner) and Franklin Industrial Park (Property owner)

MUNICIPALITY Franklin Township COUNTY Warren WATERSHED CODE D

LOCATION New Village, Edison Road - Apex Facility

RECEIVING WATERS Ground Water STREAM CLASS NA

LICENSED OPERATOR & PLANT CLASS NA

TRAINEE/ASSISTANT NA OTHER INFO. (201) 859-0085 (Apex Facility)

DEFICIENCIES OR COMMENTS 1.)* Discharge I01 exceeded permit limitations for Fluoride during 10/90 period. 2)* Numerous exceedances of parameters in MW's 1 thru 4. 3.) Stormwater lagoon was murky, turbid and had excessive floating solids. Height to freeboard was below minimum acceptable levels.

* Victaulic properly notified Department of Permit exceedances, therefore no response for items one (1) through two (2) is required.

OVERALL RATING ☐ Acceptable ☒ Conditionally Acceptable ☐ Unacceptable

EVALUATOR Mitch Reicher TITLE Environmental Specialist

INFORMATION FURNISHED BY (Name) Ron Eroh / Bruce Host

(Title) Plant Mgr. / Environ. Mgr. (Organization) Victaulic Co.

DATE OF INSPECTION April 24, 1991

Permit # NJ0099791

DISCHARGE SURVEILLANCE REPORT

Date April 24, 1991

GROUND WATER DISCHARGE EVALUATION

RATING CODES: S = Satisfactory M = Marginal U = Unsatisfactory NA = Not Applicable

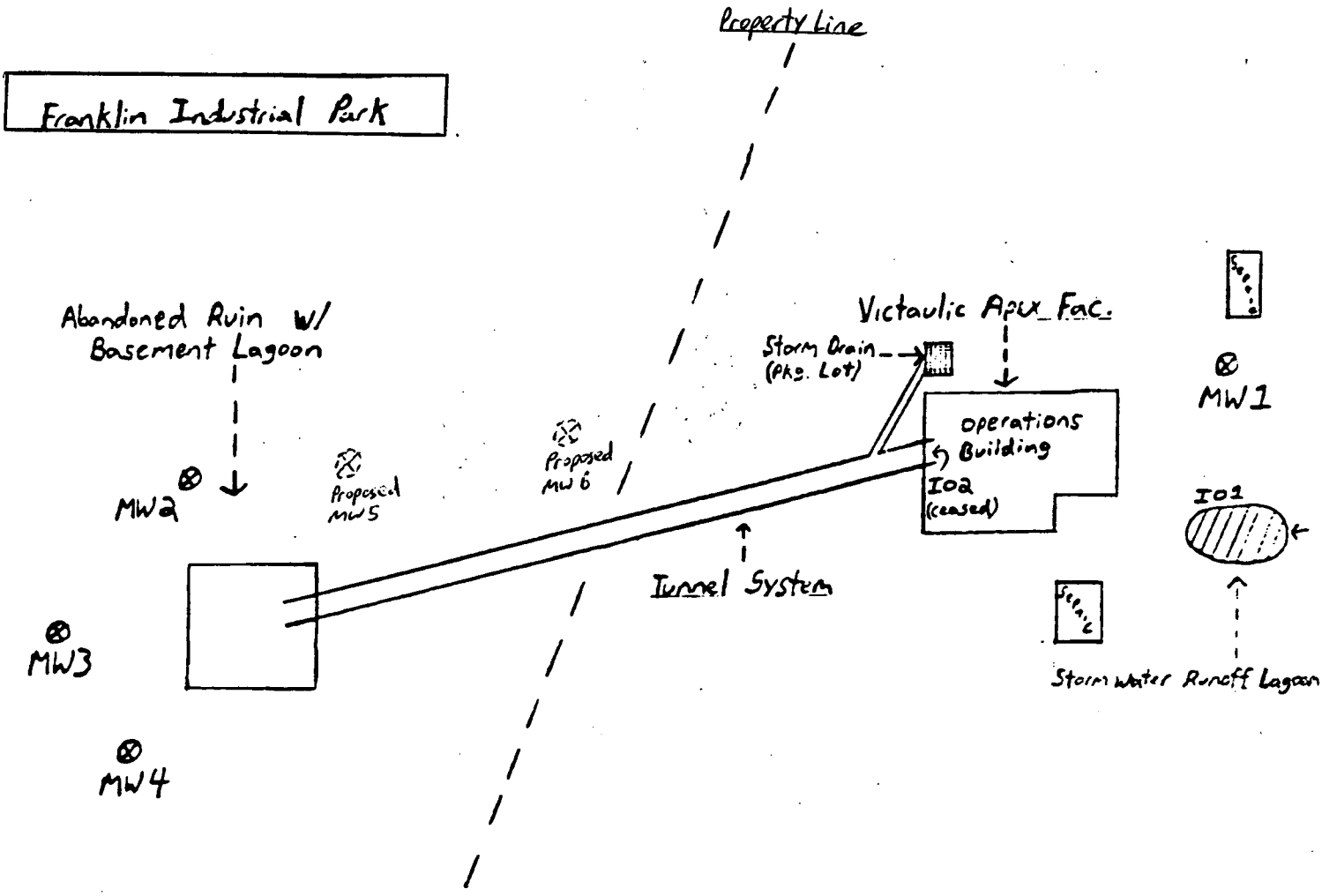
		RATING	COMMENTS
GENERAL	TYPE DGW	—	Infiltration / Percolation Lagoon
	RCRA FACILITY	NA	~closed 4/88
	DISCHARGE NUMBER	—	IO1 (stormwater lagoon) IO2 (wastewater Tunnel)
	WASTEWATER SOURCE/FREQ.	—	Sturm + Rinse Water / Intermittent
	PUMPS AND PIPING	S	
	ALTERNATE POWER/ALARM	NA	
	BYPASS	NA	
MONITORING SYSTEM	WATER SUPPLY/MONITORING	S	prod. well for indust. use only due to high nitrates
	AQUIFERS MONITORED	S	Undifferentiated Kittatinny Group of Cambro-Ordovician Age
	UPGRADIENT WELLS	S	MW 1
	DOWNGRADIENT WELLS	S	MW 2, 3 + 4
	SAMPLING PLAN	S	
	SAMPLING PROCEDURES	NI	by lab personnel
	LAB CERTIFICATION	S	Cooperative Ventures, Easton PA #72505
	RECORDS	S	Maintained on-site
	REPORTING	S	IO2 - bi-annually; MW's - Quarterly
LYSIMETER/ MONITORED WELLS	DRILLING PERMIT NUMBERS	S	MW 1, 24-24273-0; MW2, 24-24272-1; MW3,
	WELLS NUMBERED/IDENTIFIED	S	24-24271-3; MW 4, 24-24270-5
	LOCKS/INTEGRITY	S	
	ABANDONMENT PLAN	S	
	ELEVATION INFORMATION	S	
	WATER LEVEL MEASUREMENT	S	
	TURBIDITY FREE	NI	
	SUFFICIENT YIELD	S	
UIC	CLASSIFICATION	NA	
	PERC./LEACHING PROBLEMS		
	SOLVENTS/REPAIRS MADE		
	MAX. PRESSURE & VOLUME		
	CLOSEST USDW/SUPPLY WELLS		
	MOUND INTEGRITY/COVER	↓	
IMPOUNDMENT	LINING INTEGRITY	NA	Unlined
	EMBANKMENT INTEGRITY	S	
	LEACHATE COLLECTION SYS.	NA	
	SOLIDS BUILDUP/REMOVAL	U	Floating Solids
	HEIGHT TO FREEBOARD	U	Within 2 ft.
	APPEARANCE	U	Murky + Turbid with floating solids
LAND APPLICATION/ SPRAY SYSTEM	EVEN DISTRIBUTION	NA	
	PONDING/RUNOFF/EROSION		
	SPRAY HEADS		
	DISCING		
	COVER CROP		
	APPEARANCE		
	BUFFER ZONE		
	SLUDGE STOCKPILED	↓	
OTHER	SEEPAGE/LEACHING	S	none noticed
	ODOR/AEROSOLS	S	none noticed
	FLOW MONITORING/RECORDING	NA	

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
CN 029, Trenton, N.J. 08625

DISCHARGE SURVEILLANCE REPORT

Permit # NJ0099791
Date April 24, 1991

PLANT DIAGRAM AND FLOW SEQUENCE: NOT TO SCALE



DISCHARGE DATA

SOURCE: Industrial Fac. WasteWater Reports PERIOD: 7/90-9/90 ①, 10/90-12/90 ②, 1/91-3/91 ③

	DIS	PARA	SAMPLE TYPE	PERMIT LIMITS	DATA	DIS	PARA	SAMPLE TYPE	PERMIT LIMITS	DATA
①	I01	Sampling NOT Required								
②	I01	Fl	Grab	4.0 mg/l	7.1 mg/l					
③	I01	Sampling NOT Required								

MONITORING DEFICIENCIES: I01 exceeded permit limits for Flouride during 10/90-12/90 monitoring period

Form DSVR-053
3/81

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
CN 029, Trenton, N.J. 08625

DISCHARGE SURVEILLANCE REPORT

Permit # NJ0099791
Date April 24, 1991

SOURCE: Ground Water Reports

DISCHARGE DATA
PERIOD: ① 7/90-9/90, ② 10/90-12/90, ③ 1/91-3/91

	PARA	SAMPLE TYPE	PERMIT LIMITS	DATA All in parts per million (ppm) MW 1	MW 2	MW 3	MW 4
①	CADMIUM	Grab	0.01 ppm	0.045			
	Nitrate-Nitrogen		10.0 ppm	27.25	14.9	11.4	
	TDS		500 ppm	660	520	584	772
	MANGANESE		0.05 ppm		0.18	0.06	
	SULFATE		250 ppm				301
②	CADMIUM	Grab	0.01 ppm	0.05			
	CHROMIUM		0.05 ppm	0.07	0.07	0.11	0.07
	Nitrate-Nitrogen		10.0 ppm	31.08			
	TDS		500 ppm	639	525		530
	MANGANESE		0.05 ppm			0.13	0.07
③	CADMIUM	Grab	0.01 ppm	0.04			
	Nitrate-Nitrogen		10.0 ppm	20.37			
	TDS		500 ppm	614			611
	SULFATE		250 ppm				325

MONITORING DEFICIENCIES: Above data are parameters which did not achieve ground water standards for the noted monitoring Periods.

NJPDES DGW PERMIT
NOTIFICATION GUIDELINE SHEET

*Any time that a facility fails to achieve ground water quality standards and/or other permit limitations, the permittee is required, pursuant to N.J.A.C. 7:14A-2.5(a)14 and the permit, to provide oral and written notification addressing these items to the Department within specified time frames from the time the permittee becomes aware of the circumstance.

The Ground Water Exceedance Notification Report is to contain the following information:

*A) A description of the discharge;

*B) The steps being taken to determine the cause of the noncompliance;

NOTE: This shall include the steps being taken to confirm the validity of the data, and the basis used to determine whether the exceedance is due to the discharge or is due to background or off-site conditions;

*C) The steps being taken to reduce and eliminate the noncomplying discharge;

*D) The period of noncompliance, including the exact dates and times. If the noncompliance has not been corrected, the anticipated time when the discharge will be in compliance;

*E) The cause of the noncompliance;

*F) The steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance; and

G) Indicate whether the discharge has impacted or threatens to impact ground water off-site, including identification of all surface water and ground water supplies (wells) in the immediate (i.e. one-half mile radius) vicinity.

THE REPORT SHALL BE SUBMITTED TO THE GROUND WATER PERMITTING BUREAU SPECIFIED BELOW:

X	Bureau of Ground Water Discharge Control	(609) 292-0424
___	Bureau of Aquifer Protection	(609) 633-1241
___	Bureau of Municipal Discharge Control	(609) 633-3869
___	Bureau of Ground Water Pollution Abatement	(609) 292-8427
___	Bureau of Industrial Discharge Permits	(609) 292-4860
___	Northern Bureau of Regional Enforcement	(201) 299-7592

Division of Water Resources
CN 029
Trenton, NJ 08625

Upon receipt of the information requested above, a determination will be made for the need of a ground water quality assessment program pursuant to N.J.A.C. 7:14A-6.1. FAILURE TO PROVIDE THIS INFORMATION MAY RESULT IN ENFORCEMENT ACTION INCLUDING THE ISSUANCE OF PENALTIES!

FARER SIEGAL FERSKO
A PROFESSIONAL ASSOCIATION
ATTORNEYS AT LAW
600 SOUTH AVENUE
P.O. BOX 580
WESTFIELD, NEW JERSEY 07091

(908) 789-8550

FAX (908) 789-8660

HENRY FARER
MARTIN F. SIEGAL
JACK FERSKO
DAVID B. FARER
STEPHEN L. RITZ
RICHARD J. ERICSSON

ANN M. WAEGER
HEIDI S. MINUSKIN
REBECCA C. CRONEBERGER
DANIELE CERVINO
JAY A. JAFFE
BETH D. POLLACK
ANDREW W. KRANTZ
LAWRENCE F. JACOBS

May 22, 1991

Via Telecopier and Federal Express

Michael Infanger, Geologist
Bureau of Ground Water Discharge Control
Division of Water Resources
New Jersey Department of Environmental Protection
CN-029
Trenton, New Jersey 08625

Re: Proposed Revisions to Groundwater Investigation
Victaulic Company of America
Apex Galvanizing Facility
NJPDES Permit No. NJ0099791
Our file no. 850401

Dear Michael:

In line with our discussions, here are the alternative proposals prepared by Eastern Remedial Environmental Services, Inc. ("ERES") for the groundwater investigation at the Apex Galvanizing Facility ("Apex") premises. These proposals are based upon our discussions at the May 15, 1991 meeting on this issue, and are being provided to you to serve as a basis for further discussion prior to the close of the public comment period on the draft permit modification.

Here are some additional comments which were also discussed at our meeting.

1. Since it has yet to be determined whether or not current or past discharges at the facility have resulted in an impact on the environment, the groundwater monitoring required by the permit is detection monitoring as defined at N.J.A.C. 7:14A-1.8(d), and not compliance monitoring as is set forth in the draft permit modification.

   We therefore request that the draft permit modification be revised to correctly identify the monitoring as detection monitoring.

FARER SIEGAL FERSKO
A PROFESSIONAL ASSOCIATION
ATTORNEYS AT LAW

2. Since past monitoring of the existing monitor wells has shown that sulfates, total dissolved solids and manganese are not at levels that are of concern to DEP, we propose that those parameters be dropped completely from the draft permit modification.

3. We discussed that since Victaulic has been undertaking monitoring at the premises for the past two years, the requirements set forth in page three of Part III, paragraph 9 for notification of the Assistant Director of any exceedance of a parameter for the first time in a given well be deleted from the draft permit modification.

4. We discussed that the time limits for installation of the monitor wells to be used for determining the extent of the cadmium contamination be revised to account for the phased approach to the groundwater investigation and the accumulation and review of data from the initial sampling activities.

We have also enclosed the supply well volatile organic sampling data from 1984 which shows the levels of volatile organics in the water supply. This information is discussed in the ERES proposal.

As we discussed, we are anxious to complete these discussions prior to the close of the public comment period next week. We therefore are hopeful that we will be able to discuss these issues during the conference call scheduled for Friday, May 24, 1991. We will contact you tomorrow to set up a time for that call.

Thank you very much for your consideration in this matter.

Best regards,

Richard J. Ericsson
RJE:bam
Enclosure
cc: Victaulic Company of America
Eastern Remedial Environmental Services, Inc.

ERES EASTERN REMEDIAL
ENVIRONMENTAL SERVICES, INC.

1150 NEWTON STREET
NORTH BRUNSWICK, NEW JERSEY 08902
(908) 247-6333
FAX: (908) 247-0625

May 22, 1991

Mr. Richard J. Ericsson
Farer, Siegal and Fersko
600 South Avenue
PO Box 580
Westfield, NJ 07091

RE: Victaulic Company of America
Apex Galvanizing Facility
Comments to the Proposed Major Modifications to
NJPDES NJ0099791

Dear Mr. Ericsson:

Enclosed please find a summation of proposals discussed in our meeting with Mr. Michael Infanger of the NJDEP - Bureau of Ground Water Discharge Control.

-Based on our discussions at the 5/15/91 meeting with NJDEP, it appears from previous ground water elevations collected that the ground water within the bedrock zone is moving in a north-northwest direction. It is on this basis that NJDEP indicates that an investigation of essentially two (2) areas is required:

1. An investigation to define the groundwater conditions on the downgradient side of the underground trench system. Previously, three (3) monitoring wells were placed along the trench: MW-2, MW-3 and MW-4. Of these wells, the permit modification states that MW-2 appears to be the only downgradient monitoring well. NJDEP is asking for two (2) additional wells on the apparent downgradient side of the trench.

2. An investigation to identify the nature and extent of the Cadmium contamination found in elevated levels in MW-1.

-As result of our meeting, the following proposal incorporates the concept of a phased approach to the permit's requirements for conducting a ground water investigation. ERES proposes that the investigation of the trench area be pursued initially, followed by an investigation of the second area at MW-1. A phased approach would allow for gathering information on the trench first

which could impact the location and installation of wells for the cadmium investigation. Further, this systematic approach would allow the unfolding of specific information to be used in subsequent phases, which would maximize the gathering of useful information during the project.

The phased approach is as follows:

> Install one (1) well on the downgradient side of the trench at a location which would correspond approximately to and be immediately downgradient of the highest Cadmium concentrations identified by previous sampling of the trench soils. It would be expected that impacts to ground water would be greatest at this location. The location of this new well would serve to surround the ultimate discharge point, which as decribed by the permit, is the basement of the concrete ruins.
>
> The placement of wells as described would provide two (2) wells downgradient of the trench, which based upon the phased nature of the investigation, ERES feels is adequate. At some point in the future if it becomes necessary to install additional wells, these would be the result of information collected initially and would be proposed after this first phase.

Additional points based on our review of the permit and our discussion include the following:

-NJDEP indicates that proposed wells MW-5 and MW-6 will require sampling for volatile organics plus fifteen. At the meeting it was discussed that Victaulic did not utilize volatile organic compounds ("VOCs") or materials containing VOCs. Therefore, Victaulic could not have introduced VOCs into its wastewater discharge. Since Victaulic will provide information showing that its onsite production well has historically shown the presence of VOCs, indicating an offsite source of these pollutants, ERES proposes that the

requirement for sampling for VOCs be removed from the proposed modification package.

-As was discussed at the meeting, ERES proposes that no further sampling of MW-3 or MW-4 is necessary. Quarterly sampling of MW-3 and MW-4 for the past two (2) years has not shown the presence of contaminants which would require further monitoring. This is consistent with the draft permit modification proposal that if after two rounds of sampling concentrations of parameters do not exceed permit standards, then monitoring may be discontinued. ERES recommends that the wells be utilized for ground water level measurements only and that at the completion of the required monitoring or investigation they should be properly sealed.

ERES is anxious to participate in the telephone conversation to discuss these comments prior to the close of the comment period.

Best regards,

Julian Antebi
President

c: Bruce Host, Victaulic

Form DEP-016
9/83

JERSEY DEPARTMENT OF ENVIRONMENTAL [illegible]ECTION
BUREAU OF ENVIRONMENTAL LABORATORIES
380 SCOTCH ROAD, TRENTON, N.J. 08628

REQUEST FOR ANALYSIS

LAB USE ONLY
LAB CONTROL NO
[illegible] 320
LOCATION CODE

SAMPLING LOCATION
County Warren Municipality Franklin Twp
Site Victaulic Co. Edison Rd

FIELD SAMPLE NO.	SAMPLE TYPE	COLLECTION DATE (Year Month Day)	MILITARY TIM
B 00641	Water - W	84 07 03	1120

RESPONSIBLE AGENCY: Northern Region Enforcement DEP DWR
ACCOUNT NO.:

PERSON AUTHORIZED TO REQUEST ANALYSIS	TITLE	PRESERVED	Chain of Custody Implement
Isabel M. Boho	Sr. Env Engr	☐ Yes ☐ No	☒ Yes ☐ No

SEND RESULTS TO: Isabel M. Boho
PHONE NO. 2-4434
NAME & ADDRESS OF UNIT: DWR - Enforcement
[illegible]

REMARKS
New Well

LAB USE ONLY
PRICE LIST
☐ A
☐ B
☐ C
☐ D
☐ E
☐ F
☐ OTHER _____ (hours)

I. Organics
- ☒ A. Halogenated and Aromatic Volatiles
- ☐ B. Volatiles
- ☐ C. Trihalomethanes
- ☐ D. Pesticides/PCB's
- ☐ E. PCB's
- ☐ F. Base-Neutral/Acid Extractables
- ☐ G. Pesticides, Drinking Water
- ☐ H. Herbicides, Drinking Water

II. Inorganics
- ☐ A. Metals, Drinking Water ☐ Primary ☐ Secondary
- ☐ B. Metals, Priority Pollutant
- ☒ C. Metals Scan → changed to 4pp plus Al Sn. GK 7-6-84
- ☐ D. Metals, Water Pollution, specify: _____

III. Limited Chemistry
- ☐ A. Total Cyanide
- ☐ B. Total Phenol
- ☐ C. Sulfate
- ☐ D. Nitrate

IV. RCRA
- ☐ A. EP Toxicity ☐ Metals ☐ Pesticides ☐ Herbicides
- ☐ B. Ignitibility
- ☐ C. Corrosivity ☐ pH ☐ Coupon

V. Other (Specify) _____

COPIES: White - Data File Canary - Data File (client's copy) Pink - Sample Custodian Gold - Sample Receipt

Form DEP-015
9/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF ENVIRONMENTAL LABORATORIES
380 SCOTCH ROAD, TRENTON, N.J. 08628

LAB USE ONLY
LAB CONTROL NO.
2001

CHAIN OF CUSTODY RECORD

Use one form for each sample.

NAME OF UNIT AND ADDRESS			
Environment Element DEP Bur. Aviation Airport			
FIELD SAMPLE NO.	PERSON ASSUMING RESPONSIBILITY FOR SAMPLE	Collection Date	Military Time
MW-6A1	[illegible]	7/3/84	1120

Number of Containers	Size of Containers	Batch No. of Containers	DESCRIPTION OF SAMPLE
3	40ml	061184	VO scan new well
1	1Qt	061184	Metals scan "

RELINQUISHED BY	RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
[illegible]	[illegible]	7/5/84	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	7/5/84	1245	[illegible]
[illegible]	[illegible]	7/6/84	1030	[illegible]

COPIES: *Gold* – *Bottle Receipt*
Pink – *Sample Receipt*
Yellow – *Analysis Chain of Custody*
White – *Sample Custodians Chain of Custody*

Form DEP 022 A
4/84

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF ENVIRONMENTAL LABORATORIES

Page

QUANTITATIVE RESULTS & QUALITY ASSURANCE DATA

LAB CONTROL # [illegible] SAMPLE TYPE Water-DW FIELD SAMPLE # B0C611 REPORT DATE 7/11/91

SECTION SUPERVISOR NL LAB. SUPERVISOR [signature] DUPLICATE LC# 2121 MATRIX SPIKE LC# 2202

HALOGENATED AND AROMATIC VOLATILES[1]	SAMPLE DATA		QUALITY CONTROL DATA				
				LAB. DUPLICATE		MATRIX SPIKE	
PARAMETER	SAMPLE CONCEN. µg/l	MDL[2] µg/l	METHOD BLANK µg/l	µg/l	% DIFF.	CONCEN. ADDED µg/l	% RECOVERY
Bromodichloromethane	ND	0.36	ND	ND	NA		
Bromoform		1.10				18.5	79
Bromomethane		1.30					
Carbon tetrachloride		0.29				10.0	123
Chlorobenzene		0.73					
Chloroethane		0.59					
2-Chloroethylvinyl ether		1.20					
Chloroform		0.20				48.4	102
Chloromethane		0.62					
Dibromochloromethane		0.66				20.0	72
1,2-Dichlorobenzene		0.50					
1,3-Dichlorobenzene		0.56					
1,4-Dichlorobenzene		0.51					
Dichlorodifluoromethane		1.30					
1,1-Dichloroethane		0.38				9.6	108
1,2-Dichloroethane		0.35					
1,1-Dichloroethene		0.81					
trans-1,2-Dichloroethene		0.36					
1,2-Dichloropropane		0.44					
cis-1,3-Dichloropropene		0.35					
trans-1,3-Dichloropropene		0.44					
Methylene chloride		0.29		↓	↓		

LC# 3201

PARAMETER	SAMPLE DATA		QUALITY CONTROL DATA				
				LAB. DUPLICATE		MATRIX SPIKE	
	SAMPLE CONCEN. µg/l	MDL[2] µg/l	METHOD BLANK µg/l	µg/l	% DIFF.	CONCEN. ADDED µg/l	% RECOVERY
1,1,2,2-Tetrachloroethane	1.d	0.52	1.d	ND	NA		
Tetrachloroethene	↓	0.85	↓	↓	↓		
1,1,1-Trichloroethane	3.93	0.53				9.7	123
1,1,2-Trichloroethane	1.d	0.35					
Trichloroethene	9.48	0.34					
Trichlorofluoromethane	1.d	0.33					
Vinyl chloride	↓	1.30					
Benzene		0.64				19.3	108
Ethylbenzene	↓	1.40		↓	↓		
Toluene	2.11	0.88	↓	9.69	2.6	20.3	84

[1] Methods Reference: EPA 600/4-82-057, EMSL Cincinnati, OH, 45268, July 82: PTS SOP 7.1.2-.3

[2] BEL Established Method Detection Limits.

II–GC SURROGATE RECOVERY DATA

COMPOUNDS	CONCENTRATION ADDED TO SAMPLE MATRIX µg/l	% RECOVERY	CONTROLS LIMITS % LOWER	UPPER	QUALIFIED*
Bromochloromethane	20.0	103	59	103	
2-Bromo-1-Chloropropane	20.0	95	53	105	
1-4-Dichlorobutane	20.0	97	50	148	
α,α,α-Trifluorotolunene	23.5	98	50	142	

* IF DATA IS QUALIFIED SEE COMMENTS BELOW:

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DANIELE CERVINO
JAY A. JAFFE
BETH D. POLLACK
ANDREW W. KRANTZ
LAWRENCE F. JACOBS

April 18, 1991

Via Telecopier and Regular Mail

Michael Infanger, Geologist
Bureau of Ground Water Discharge Control
Ground Water Quality Management Element
Division of Water Resources
New Jersey Department of Environmental Protection
CN-029
Trenton, New Jersey 08625

Re: Draft Permit Modification
Victaulic Company of America
Apex Galvanizing Facility
Premises: Edison Road
Franklin Township
Warren County, New Jersey
NJPDES Permit No. NJ0099791
Our file no. 850401

Dear Michael:

We are writing to inquire into the status of the draft major modification of the referenced permit which we have discussed.

Because of the on-going nature of the groundwater investigation at the premises, we are hopeful that you will be able provide us with a copy of the draft major modification prior to its official issuance in draft so that we may have some informal discussions concerning the major modification's requirements.

Please contact us so that we may be able to discuss the status of the major modification.

Thank you for your consideration.

Richard J. Ericsson
RJE:bam
cc: Victaulic Company of America

Victaulic
Company of America

CF-0
NJ0099

Certified Mail No. P409-674-440
Return Receipt Requested

July 10, 1991

Mr. Robert Plumb, Section Chief
New Jersey Department of
Environmental Protection
Division of Water Resources
Northern Bureau of Regional Enforcement
1259 Route 46, Building 2
Parsippany, NJ 07054

Victaulic Company of America
Apex Facility, New Village, Warren County
NJPDES Permit No. NJ0099791
Response to Compliance Evaluation Inspection

Dear Mr. Plumb:

A compliance evaluation inspection of the Apex facility was conducted on April 24, 1991, by a representative of the Division of Water Resoures. Enclosed is a written report, which addresses the lone deficiency noted in the Compliance Evaluation Inspection letter received by Victaulic on June 11, 1991.

Item 4 of the Compliance Evaluation Letter

The height to freeboard of the retention pond's waters was found to be below the minimum acceptable level of two feet during the April 24 inspection. The inspection was preceded by heavy rains both the morning of and the day prior to finding the unsatisfactory height to freeboard.

Victaulic has subsequently performed maintenance on the drainage system within the retention pond and will monitor the level of water in the pond after upcoming storm events to ensure it is draining properly.

If I can be of further assistance with regards to this matter, feel free to contact me at 215-559-3476.

Very truly yours,

Bruce W. Host

Bruce W. Host, Jr.
Environmental Engineer

BWH/jms

Enclosure

cc: D. S. Bugby
D. R. Brown
R. G. Eroh - Apex
R. J. Ericsson - Farer Siegal Fersko

USEPA
Permits Administration Branch
26 Federal Plaza
New York, NY 10278

CF-04

NJ0099791

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BARBARA J. KOONZ
JAY A. JAFFE
BETH D. POLLACK

September 28, 1990

Via Telecopier and Federal Express

Robert Plumb, Section Chief
New Jersey Department of Environmental Protection
Division of Water Resources
Northern Bureau of Regional Enforcement
1259 Route 46, Building 2
Parsippany, New Jersey 070504

Re: Response to Compliance Evaluation Inspection
Permittee: Victaulic Company of America
Premises: Apex Facility
Edison Road
New Village, New Jersey
Warren County
NJPDES Permit No. NJ0099791
Our file no. 850401

Dear Mr. Plumb:

A compliance evaluation inspection of the Victaulic Company of America Apex Facility ("Victaulic") was conducted on July 26, 1990 by a representative of the Division of Water Resources ("DWR"). We have enclosed a written report prepared by the Permittee which addresses the alleged deficiencies noted in the Compliance Evaluation Inspection Report dated August 22, 1990.

Although the Permittee is providing the information requested, it is Victaulic's contention that DWR improperly concluded that the Permittee's actions were deficient as set forth in items 2 and 3 of the Compliance Evaluation Inspection Report.

As to Item 2 of the Compliance Evaluation Letter dated August 22, 1990

Item 2 states: "Parameters which did not achieve the standards must be reported to the Department in accordance with the General Conditions, Part III of your NJPDES Permit and the NJPDES regulations, N.J.A.C. 7:14A-2.5(a)14.vi."

Part III item 8 of the NJPDES Permit provides that when the concentration of a contaminant in a sample exceeds the permit standard, the Permittee must comply with the requirements of N.J.A.C. 7:14A-6.15(j). Pursuant to subsections (j)8 and 9, if any hazardous constituent exceeds the permit standards, the operator shall determine whether there is a statistically significant increase, and if there is such an increase, report it to DWR.

As set forth in the enclosed Groundwater Exceedance Notification Report, there has either been no pattern of increases of any hazardous constituent over time, no increase of hazardous constituents in what might be considered Victaulic's compliance point or no increase of any parameter that may be related to the nature of Victaulic's past discharge. Additionally, Victaulic has no evidence to indicate that any of the exceedances endanger health or the environment.

As to Item 3 of the Compliance
Evaluation Letter dated August 22, 1990

The permit clearly states that the Permittee is to sample for total volatile organics and xylene during the sampling months of April and October only. The permit also states that the Permittee shall report the results of such sampling in February, May, August and November. It is clear that the reporting requirements are a misprint in the permit. Obviously, if Victaulic is only required to sample in April and October, Victaulic will only be able to report the results of analysis of those samples in May and November. There is no data to report during the February and August reporting periods.

Therefore, the Permittee is not in violation of item 3 of the August 22, 1990 letter.

Victaulic requests that DWR upgrade the rating set forth in the August 22, 1990 Compliance Evaluation and Inspection Report to acceptable.

Due to the specific nature of the relation of Victaulic's permit to its activities at the premises, including the lack of a clear relationship between the permitted levels set forth in the permit and the nature of Victaulic's past discharge, as well as the apparent inapplicability of the regulations to this matter, we are

FARER SIEGAL FERSKO
A PROFESSIONAL ASSOCIATION
ATTORNEYS AT LAW

anxious to discuss this matter in more detail with you, and will make ourselves available for a meeting if necessary.

Thank you for your consideration in this matter.

Richard J. Ericsson
RJE:bam
cc: Victaulic Company of America
NJDEP Bureau of Groundwater Discharge Control
Mr. Mitchell Reicher

Victaulic
Company of America

September 20, 1990

State of New Jersey
Department of Environmental Protection
Division of Water Resources
Bureau of Ground Water Discharge Control
CN-029
Trenton, NJ 08625

Victaulic Company of America
Apex Facility - Franklin Township, Warren County
NJPDES DGW Permit No. NJ0099791
Response to Compliance Evaluation Inspection

Dear Sirs:

Victaulic Company of America's Apex facility, located in Franklin Township, Warren County, New Jersey, recently had its annual compliance evaluation inspection with regards to its NJPDES Discharge to Ground Water (DGW) permit. In a letter dated August 22, 1990, the facility received a rating of **"unacceptable"** due to a number of deficiencies found at the plant. Victaulic submits the following material to correct those deficiencies and to upgrade the rating to one of **"acceptable"**.

To address items one and two of the referenced letter, a ground water exceedance notification report is enclosed, which highlights all parameters that failed to achieve permit standards for all the monitoring wells during the five sampling events which have taken place to this date. For future well sampling events, the ground water exceedance notification report shall be included, when necessary, as part of the cover letter submitted with our Discharge Monitoring Reports. This will than meet the requirements set forth in the General Conditions, Part III of our NJPDES DGW permit.

In response to item three, with regards to the sampling and reporting of xylene and volatile organic compounds, these compounds were not due to be reported or sampled during the January sampling period of 1/90 to 3/90. These parameters were sampled for and reported the quarter before and after this time period as required in our DGW permit. A copy of Part III of our DGW permit is enclosed, which shows the ground water monitoring requirements for our four monitoring wells. For xylene and volatile organic compounds, we are required to sample for these parameters in April and October and then report the results in February, May, August and November. We feel that this is a misprint in our permit and that the reporting months should read May and November. Victaulic will continue to sample for these parameters in April and October and report them in May and November only, as we have done in the past.

If further information is needed to address and correct these deficiencies found in the compliance evaluation inspection, please feel free to contact me at 215-252-6400, Ext. 3476.

Very truly yours,

Bruce W. Host, Jr.

Bruce W. Host, Jr.
Environmental Engineer

BWH/jms

Enclosures

cc: D. S. Bugby
D. R. Brown
R. G. Eroh

Mr. Mitchell Reicher
State of New Jersey
Department of Environmental Protection
Division of Water Resources
Northern Bureau of Regional Enforcement
1259 Route 46, Building 2
Parsippany, NJ 07054

Victaulic Company of America
Apex Facility - Franklin Township, Warren County
NJPDES DGW Permit No. NJ0099791
Ground Water Exceedance Notification Report

The following is the Ground Water Exceedance Notification Report prepared by Victaulic Company of America for its Apex facility, with regard to its NJPDES Discharge to Ground Water (DGW) permit. This report is being submitted as required by the findings of the annual compliance evaluation inspection found in the letter received from the NJDEP dated August 22, 1990.

Victaulic's wastewater discharge was discontinued as of April 1988, prior to the issuance of our DGW permit. Therefore, many of the requirements of the Ground Water Exceedance Notification Report do not appear here due to the discontinuing of this wastewater discharge. The attached table, Table I, highlights all parameters that have failed to meet permit standards for monitoring wells one through four for the five sampling events which have taken place to this date. A short narrative is included below which discusses these exceedances and any trends that have developed.

The total dissolved solids exceedances have been present in all of the wells since the first sampling event on June 27, 1989. Since the exceedance occurs in the upgradient or background well, well #1, as well as the downgradient wells, we feel that this is inherent to the groundwater in this area.

The cadmium results from Table I only appear in our background well and not in any of our downgradient wells, and therefore, could not be caused by our past discharge. We shall continue to monitor the Cd results of well #1 to see if any trends develop, but as of now, the results do not show any increasing trends.

There are a number of other parameters that exceeded their permitted values. These are sulfate, manganese, ammonia and selenium. These have all occurred in our downgradient wells 2, 3 and 4. It is felt that these results are influenced by many factors beyond our control, which could cause them to rise above the permit values and then fall below during the next sampling event. Since there is no evidence of an increasing pattern to any of these results for the listed parameters, we shall continue to pay close attention during the upcoming quarters to look for any developing trends. We will report our findings to the NJDEP in our future DMR submissions.

The nitrate situation, which appears in three of our wells in the last sampling event on July 10, 1990, we feel is caused by ISE Farm's chicken farm, which is located approximately 1/2 mile upgradient of our facility. We have found that other wells in the area have experienced this same problem, including our own production well, which has forced the Apex facility to use bottled water. This parameter will continue to be monitored in the future with all exceedances reported in our quarterly DMR.

BWH/jms

TABLE I

Victaulic Company of America - Apex Facility
NJPDES DGW PERMIT EXCEEDANCES

Sampling Date	Monitoring Well	Parameter	Result (ppm)
06/27/89	1	Cd	0.05
		TDS	571
	2	TDS	512
	3	TDS	578
	4	Sulfate	355
		TDS	824
10/10/89	1	Cd	0.04
		TDS	642
	2	TDS	550
	3	Mn	140
		TDS	530
	4	TDS	697
01/19/90	1	Cd	0.04
		TDS	579
	2	TDS	559
	3	TDS	572
	4	NH_3-N	1.0
		Se	12.6
		TDS	721
04/10/90	1	Cd	0.05
		TDS	591
	3	TDS	587
	4	TDS	709
07/10/90	1	Cd	0.045
		Nitrate	27.25
		TDS	660
	2	Mn	180
		Nitrate	14.9
		TDS	520
	3	Mn	60
		Nitrate	11.4
		TDS	584
	4	Sulfate	301
		TDS	772

BWH/jms

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August 28, 1990

Via Federal Express

New Jersey Department of Environmental Protection
Division of Water Resources
Water Quality Management Element
Bureau of Permits Administration
CN-029
Trenton, New Jersey 08625

Attention: Monitoring Well Reports

Re: August, 1990 Monitoring Report
Permitee: Victaulic Company of America
Premises: Apex Facility
Edison Road
New Village, New Jersey
Warren County
NJPDES Permit No.: NJ0099791
Our file no.: 850401

Dear Sirs:

We are environmental counsel for Victaulic Company of America ("Victaulic").

Here is the required August, 1990, Monitoring Report.

The Monitoring Report analytical results indicate that there has been increases in the levels of dissolved nitrogen/nitrate. We have been advised by Cindy DeAngelo of the Warren County Health Department that the Apex Facility is located downgradient of nearby Ise Farms, a very large chicken farm. Ms. DeAngelo advised us that the chicken manure, which contains nitrogen, accumulates in the area of the chicken houses and is also spread on nearby fields. This is the apparent source of the nitrogen/nitrate problem in the groundwater.

We have also been advised by Glen Clouser, Esq., of the New Jersey Division of Law that an Administrative Order has been issued by New Jersey Department of Environmental Protection ("DEP") against Ise Farms. The basis of the Order was that Ise Farms was improperly

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A PROFESSIONAL ASSOCIATION
ATTORNEYS AT LAW

New Jersey Department of Environmental Protection
Division of Water Resources
Water Quality Management Element
Bureau of Permits Administration
Attention: Monitoring Well Reports
August 29, 1990
-2-

discharging untreated chicken manure to retention basins which periodically overflowed. We were advised that Ise Farms was required to install monitor wells on its property and to collect groundwater samples in order to investigate the groundwater problem. Additionally, DEP has brought suit against Ise Farms for penalties and injunctive relief.

We have also been informed by Mr. Chuck Viviani of the Bureau of Safe Drinking Water that area production wells are apparently being effected by the nitrogen/nitrate problem created by Ise Farms.

Based upon this information, we believe that Ise Farms is the source of the increased amounts of nitrogen which have been detected in the groundwater at the premises.

As we have informed you previously, there has been no industrial discharge at the Apex Facility since April 1988. In addition, the minor exceedance of permit limitations for total dissolved solids, manganese, sulfate and cadmium are not related to any past or present discharges at the premises, and are therefore totally out of the control of Victaulic.

If you have any questions, please contact us.

Jay A. Jaffe
JAJ:es
Enclosure
cc: Victaulic Company of America

MW - 1

Form VWX-015 A
4/83

NEW J[illegible] DEPARTMENT OF ENVIRONMENTAL PRO[illegible]
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME	SW ID NO.
Apex Facility	
LAB NAME: Cooperative Ventures Inc.	

NJPDES NO. (1–8): R | NJ0097971
WELL PERMIT NO. (9–16): 24-24273-0
SAMPLE DATE YR. | MO. | DAY (17–22): 90 | 04 | 10
NJ LAB CERT. NO. (23–27): 77505
WQM USE (28):

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 01 | 88 (MO. YR.) TO 03 | 93 (MO. YR.)

MAY 30 1990

SUBMIT WITH SIGNED T-VWX-014

DEPT [illegible]

SAMPLING MONTHS: Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
X			X			X			X			Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01		352.51	
X			X			X			X			Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01		351.0	
X			X			X			X			Depth to water table from top of casing prior to sampling with cap off	feet: to nearest .01	82546	43.25	
X			X			X			X			Depth to water table from original ground level prior to sampling	feet: to nearest .01	72019	41.74	
X			X			X			X			Arsenic, Dissolved	UG/L as As	01000	5.	K
X			X			X			X			Barium, Dissolved	UG/L as Ba	01005	200.	K
												Biochemical Oxygen Demand - 5 Day	MG/L	00310		
X			X			X			X			Cadmium, Dissolved	UG/L as Cd	01025	50.	
X			X			X			X			Chloride, Dissolved	UG/L as Cl	82295	21000.	
X			X			X			X			Chromium, Dissolved	UG/L as Cr	01030	50.	K
												Chromium, Dissolved, Hexavalent	UG/L as Cr	01220		
												Chemical Oxygen Demand (COD), Dissolved	MG/L	00341		
												Coliform Group	N/100 ML	74056		
												Color	Pt - Co	00080		
X			X			X			X			Copper, Dissolved	UG/L as Cu	01040	20.	K
X			X			X			X			Cyanide, Total	MG/L as CN	00720	0.01	K
												Endrin, Total	UG/L	39390		
X			X			X			X			Fluoride, Dissolved	MG/L as F	00950	0.2	
												Gross Alpha, Dissolved	Pc/L	01503		
												Gross Beta, Dissolved	Pc/L	03503		
												Hardness, Total as $CaCO_3$	MG/L	00900		
X			X			X			X			Iron, Dissolved	UG/L as Fe	01046	50.	K
X			X			X			X			Lead, Dissolved	UG/L as Pb	01049	5.	K
												Lindane, Total	UG/L	39782		
X			X			X			X			Manganese, Dissolved	UG/L	01056	20.	K
X			X			X			X			Mercury, Dissolved	UG/L	71890	0.5	K

VALUE CODING RULES AND
REMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
72 73 79 80

MW-1

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME	SW ID NO.
Apex Facility	
LAB NAME: Cooperative Ventures Inc.	

NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
S NJ 0097791 (2–8)	24-24273-0 (9–16)	90 04 10 (17–22)	77505 (23–27)	(28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 04 88 (MO. YR.) TO 03 93 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
												Methoxychlor, Total	UG/L	39480		
												Methylene Blue Active Substances	MG/L	38260		
X			X			X			X			Nitrogen, Ammonia, Dissolved $NH_3 + NH_4$ as N	MG/L as N	00608	0.17	
X			X			X			X			Nitrogen, Nitrate, Dissolved	MG/L as N	00618	7.85	
												Odor	T.O.N.	00085		
X			X			X			X			pH	Standard Units	00400	7.25	
												Phenols, Total Recoverable	UG/L	32730		
												Radium 226, Dissolved	Pc/L	09503		
												Radium 228, Dissolved	Pc/L	81366		
X			X			X			X			Selenium, Dissolved	UG/L	01145	5.	K
X			X			X			X			Silver, Dissolved	UG/L	01075	20.	K
												Sodium, Dissolved	MG/L	00930		
X			X			X			X			Sulfate, Dissolved (as SO_4)	MG/L	00946	1.4	
X			X			X			X			Total Dissolved Solids (TDS)	PPM	70300	591.	
												Total Organic Carbon (TOC)	PPM	00680		
												Total Organic Halogen (TOX)	UG/L	70353		
												Toxaphene	UG/L	39400		
												Turbidity	NTU	00076		
X			X			X			X			Zinc, Dissolved	UG/L	01090	400.	
												2, 4–D, Total	UG/L	39370		
												2, 4, 5–TP, Total	UG/L	39045		
X			X			X			X			Phosphate	MG/L		0.11	
			X						X			Total Xylene	UG/L		5.	K

VALUE CODING RULES AND
REMARK CODES ON REVERSE

29 42 55 68 | 40 41 53 54 66 67 79 80

Form VWX-016
4/83

NEW

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

MW-1

GROUND WATER ANALYSIS – VOLATILE ORGANICS REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME	SW ID NO.
Apex Facility	
LAB NAME: Princeton Testing Labs	

NJPDES NO. (1–8): T NJ 0099791
WELL PERMIT NO. (9–16): 24-24273-0
SAMPLE DATE YR. MO. DAY (17–22): 90 04 10
NJ LAB CERT. NO. (23–27): 11118
WQM USE (28):

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 01 / 88 (MO. / YR.) TO 03 / 93 (MO. / YR.)

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS: Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
			X						X			Acrylonitrile	UG/L	34215	50.	K
			X						X			Benzene	UG/L	34030	5.	K
			X						X			Bromoform	UG/L	32104	5.	K
			X						X			Carbon Tetrachloride	UG/L	32102	2.3	K
			X						X			Chlorobenzene	UG/L	34301	5.	K
			X						X			Chlorodibromoethane	UG/L	34306	5.	K
			X						X			Chloroform	UG/L	32106	5.	K
			X						X			1, 1 - Dichloroethane	UG/L	34496	5.	K
			X						X			1, 2 - Dichloroethane	UG/L	34531	5.	K
			X						X			1, 1 - Dichloroethylene	UG/L	34501	5.	K
			X						X			1, 2 - Dichloropropane	UG/L	34541	5.	K
			X						X			Ethylbenzene	UG/L	34371	5.	K
			X						X			Methylene Chloride	UG/L	34423	5.	K
			X						X			1, 1, 2, 2 - Tetrachloroethane	UG/L	34516	5.	K
			X						X			Tetrachloroethylene	UG/L	34475	5.	K
			X						X			Toluene	UG/L	34012	5.	K
			X						X			1, 1, 1 - Trichloroethane	UG/L	34506	5.	K
			X						X			1, 1, 2 - Trichloroethane	UG/L	34511	5.	K
			X						X			Trichloroethylene	UG/L	39180	5.	K
			X						X			Vinyl Chloride	UG/L	39175	1.5	K
			X						X			Acrolein	UG/L	34210	50.	K
			X						X			Chloroethane	UG/L	34311	5.	K
			X						X			2 - Chloroethylvinyl Ether	UG/L	34576	5.	K
			X						X			Dichlorobromomethane	UG/L	32105	5.	K
			X						X			1, 3 - Dichloropropylene	UG/L	34699	5.	K
			X						X			Methyl Bromide	UG/L	34413	5.	K
			X						X			Methyl Chloride	UG/L	34418	5.	K
			X						X			1, 2 - trans - Dichloroethylene	UG/L	34546	5.	K
			X						X			1, 2 Dichlorobenzene	UG/L	34536	5.	K
			X						X			1, 3 Dichlorobenzene	UG/L	34566	5.	K
			X						X			1, 4 Dichlorobenzene	UG/L	34571	5.	K

29 33 34
42 46 47
55 59 60
68 72 73

VALUE CODING RULES AND
REMARK CODES ON REVERSE

MW-2

Form VWX-015 A
4/83

NEW J . DEPARTMENT OF ENVIRONMENTAL PRO' ON
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME	SW ID NO.
Apex Facility	
LAB NAME: Cooperative Ventures, Inc.	

NJPDES NO.: R (1) NJ 0 0 9 9 7 9 1 (2–8)
WELL PERMIT NO.: 24-24272-1 (9–16)
SAMPLE DATE YR. | MO. | DAY: 9 0 0 4 1 0 (17–22)
NJ LAB CERT. NO.: 7 7 5 0 5 (23–27)
WQM USE: (28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 04 / 88 (MO. YR.) TO 03 / 93 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

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SAMPLING MONTHS: Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
X			X			X			X			Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01		341.90	
X			X			X			X			Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01		340.30	
X			X			X			X			Depth to water table from top of casing prior to sampling with cap off	feet: to nearest .01	82546	39.33	
X			X			X			X			Depth to water table from original ground level prior to sampling	feet: to nearest .01	72019	37.33	
X			X			X			X			Arsenic, Dissolved	UG/L as As	01000	5.	K
X			X			X			X			Barium, Dissolved	UG/L as Ba	01005	200.	K
												Biochemical Oxygen Demand - 5 Day	MG/L	00310		
X			X			X			X			Cadmium, Dissolved	UG/L as Cd	01025	5.	K
X			X			X			X			Chloride, Dissolved	UG/L as Cl	82295	13000.	
X			X			X			X			Chromium, Dissolved	UG/L as Cr	01030	50.	K
												Chromium, Dissolved, Hexavalent	UG/L as Cr	01220		
												Chemical Oxygen Demand (COD), Dissolved	MG/L	00341		
												Coliform Group	N/100 ML	74056		
												Color	Pt - Co	00080		
X			X			X			X			Copper, Dissolved	UG/L as Cu	01040	20.	K
X			X			X			X			Cyanide, Total	MG/L as CN	00720	0.01	K
												Endrin, Total	UG/L	39390		
X			X			X			X			Fluoride, Dissolved	MG/L as F	00950	0.76	
												Gross Alpha, Dissolved	Pc/L	01503		
												Gross Beta, Dissolved	Pc/L	03503		
												Hardness, Total as $CaCO_3$	MG/L	00900		
X			X			X			X			Iron, Dissolved	UG/L as Fe	01046	50.	K
X			X			X			X			Lead, Dissolved	UG/L as Pb	01049	5.	K
												Lindane, Total	UG/L	39782		
X			X			X			X			Manganese, Dissolved	UG/L	01056	20.	K
X			X			X			X			Mercury, Dissolved	UG/L	71890	0.5	K

VALUE CODING RULES AND
REMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
72 73 79 80

Form VWX-015 B
4/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

MW-2

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME	SW ID NO.
Apex Facility	
LAB NAME: Cooperative Ventures, Inc.	

NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
S NJ 0097791	24-24272-1	90 04 10	77505	

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 04 88 (MO. YR.) TO 03 93 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
												Methoxychlor, Total	UG/L	39480		
												Methylene Blue Active Substances	MG/L	38260		
X			X			X			X			Nitrogen, Ammonia, Dissolved $NH_3 + NH_4$ as N	MG/L as N	00608	0.38	
X			X			X			X			Nitrogen, Nitrate, Dissolved	MG/L as N	00618	3.92	
												Odor	T.O.N.	00085		
X			X			X			X			pH	Standard Units	00400	7.28	
												Phenols, Total Recoverable	UG/L	32730		
												Radium 226, Dissolved	Pc/L	09503		
												Radium 228, Dissolved	Pc/L	81366		
X			X			X			X			Selenium, Dissolved	UG/L	01145	5.	K
X			X			X			X			Silver, Dissolved	UG/L	01075	20.	K
												Sodium, Dissolved	MG/L	00930		
X			X			X			X			Sulfate, Dissolved (as SO_4)	MG/L	00946	148.	
X			X			X			X			Total Dissolved Solids (TDS)	PPM	70300	377.	
												Total Organic Carbon (TOC)	PPM	00680		
												Total Organic Halogen (TOX)	UG/L	70353		
												Toxaphene	UG/L	39400		
												Turbidity	NTU	00076		
X			X			X			X			Zinc, Dissolved	UG/L	01090	60.	
												2, 4–D, Total	UG/L	39370		
												2, 4, 5–TP, Total	UG/L	39045		
X			X			X			X			Phosphate	MG/L		0.111	
			X						X			Total Xylene	UG/L		5.	K

VALUE CODING RULES AND
REMARK CODES ON REVERSE

29 40 41
42 53 54
55 66 67
68 79 80

Form VWX-016
4/83

NEW ... DEPARTMENT OF ENVIRONMENTAL PROT... N
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

MW-2

GROUND WATER ANALYSIS – VOLATILE ORGANICS REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME	SW ID NO.
Apex Facility	
LAB NAME: Princeton Testing Labs	

NJPDES NO.: T NJ 0099791 (cols 1–8)
WELL PERMIT NO.: 24-24272-1 (cols 9–16)
SAMPLE DATE YR. MO. DAY: 900410 (cols 17–22)
NJ LAB CERT. NO.: 11118 (cols 23–27)
WQM USE: (col 28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 04/88 (MO. YR.) TO 03/93 (MO. YR.)

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DIVISION OF WATER

SUBMIT WITH SIGNED T-VWX-014

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
			X						X			Acrylonitrile	UG/L	34215	50.	K
			X						X			Benzene	UG/L	34030	5.	K
			X						X			Bromoform	UG/L	32104	5.	K
			X						X			Carbon Tetrachloride	UG/L	32102	2.2	K
			X						X			Chlorobenzene	UG/L	34301	5.	K
			X						X			Chlorodibromoethane	UG/L	34306	5.	K
			X						X			Chloroform	UG/L	32106	5.	K
			X						X			1, 1 - Dichloroethane	UG/L	34496	5.	K
			X						X			1, 2 - Dichloroethane	UG/L	34531	5.	K
			X						X			1, 1 - Dichloroethylene	UG/L	34501	5.	K
			X						X			1, 2 - Dichloropropane	UG/L	34541	5.	K
			X						X			Ethylbenzene	UG/L	34371	5.	K
			X						X			Methylene Chloride	UG/L	34423	5.	K
			X						X			1, 1, 2, 2 - Tetrachloroethane	UG/L	34516	5.	K
			X						X			Tetrachloroethylene	UG/L	34475	5.	K
			X						X			Toluene	UG/L	34012	5.	K
			X						X			1, 1, 1 - Trichloroethane	UG/L	34506	5.	K
			X						X			1, 1, 2 - Trichloroethane	UG/L	34511	5.	K
			X						X			Trichloroethylene	UG/L	39180	5.	K
			X						X			Vinyl Chloride	UG/L	39175	1.5	K
			X						X			Acrolein	UG/L	34210	50.	K
			X						X			Chloroethane	UG/L	34311	5.	K
			X						X			2 - Chloroethylvinyl Ether	UG/L	34576	5.	K
			X						X			Dichlorobromomethane	UG/L	32105	5.	K
			X						X			1, 3 - Dichloropropylene	UG/L	34699	5.	K
			X						X			Methyl Bromide	UG/L	34413	5.	K
			X						X			Methyl Chloride	UG/L	34418	5.	K
			X						X			1, 2 - trans - Dichloroethylene	UG/L	34546	5.	K
			X						X			1, 2 Dichlorobenzene	UG/L	34536	5.	K
			X						X			1, 3 Dichlorobenzene	UG/L	34566	5.	K
			X						X			1, 4 Dichlorobenzene	UG/L	34571	5.	K

VALUE CODING RULES AND
REMARK CODES ON REVERSE

Form VWX-015 A
4/83

NEW J ..E. DEPARTMENT OF ENVIRONMENTAL PRO.
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

MW-3

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME	SW ID NO.
Apex Facility	
LAB NAME: Cooperative Ventures, Inc.	

R (1) | NJPDES NO. NJ 0 0 9 9 7 9 1 (2–8) | WELL PERMIT NO. 2 4 - 2 4 2 7 1 - 3 (9–16) | SAMPLE DATE YR. | MO. | DAY: 9 0 0 4 1 0 (17–22) | NJ LAB CERT. NO. 7 7 5 0 5 (23–27) | WQM USE (28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 4 8 8 (MO. YR.) TO 0 3 9 3 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
X			X			X			X			Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01		340.92	
X			X			X			X			Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01		339.40	
X			X			X			X			Depth to water table from top of casing prior to sampling with cap off	feet: to nearest .01	82546	37.83	
X			X			X			X			Depth to water table from original ground level prior to sampling	feet: to nearest .01	72019	36.31	
X			X			X			X			Arsenic, Dissolved	UG/L as As	01000	5.	K
X			X			X			X			Barium, Dissolved	UG/L as Ba	01005	200.	K
												Biochemical Oxygen Demand - 5 Day	MG/L	00310		
X			X			X			X			Cadmium, Dissolved	UG/L as Cd	01025	5.	K
X			X			X			X			Chloride, Dissolved	UG/L as Cl	82295	13000.	
X			X			X			X			Chromium, Dissolved	UG/L as Cr	01030	50.	K
												Chromium, Dissolved, Hexavalent	UG/L as Cr	01220		
												Chemical Oxygen Demand (COD), Dissolved	MG/L	00341		
												Coliform Group	N/100 ML	74056		
												Color	Pt - Co	00080		
X			X			X			X			Copper, Dissolved	UG/L as Cu	01040	20.	K
X			X			X			X			Cyanide, Total	MG/L as CN	00720	0.01	K
												Endrin, Total	UG/L	39390		
X			X			X			X			Fluoride, Dissolved	MG/L as F	00950	0.31	
												Gross Alpha, Dissolved	Pc/L	01503		
												Gross Beta, Dissolved	Pc/L	03503		
												Hardness, Total as $CaCO_3$	MG/L	00900		
X			X			X			X			Iron, Dissolved	UG/L as Fe	01046	60.	
X			X			X			X			Lead, Dissolved	UG/L as Pb	01049	5.	K
												Lindane, Total	UG/L	39782		
X			X			X			X			Manganese, Dissolved	UG/L	01056	20.	K
X			X			X			X			Mercury, Dissolved	UG/L	71890	0.5	K

VALUE CODING RULES AND REMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
72 73 79 80

MW-3

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Apex Facility
SW ID NO.:
LAB NAME: Cooperative Ventures, Inc.

NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
S NJ0097971	24-2427 1-3	90 04 10	77505	

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 04 88 (MO. YR.) TO 03 93 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
												Methoxychlor, Total	UG/L	39460		
												Methylene Blue Active Substances	MG/L	38260		
X			X			X			X			Nitrogen, Ammonia, Dissolved $NH_3 + NH_4$ as N	MG/L as N	00608	0.1	K
X			X			X			X			Nitrogen, Nitrate, Dissolved	MG/L as N	00618	4.08	
												Odor	T.O.N.	00085		
X			X			X			X			pH	Standard Units	00400	7.38	
												Phenols, Total Recoverable	UG/L	32730		
												Radium 226, Dissolved	Pc/L	09503		
												Radium 228, Dissolved	Pc/L	81366		
X			X			X			X			Selenium, Dissolved	UG/L	01145	5.	
X			X			X			X			Silver, Dissolved	UG/L	01075	20.	K
												Sodium, Dissolved	MG/L	00930		
X			X			X			X			Sulfate, Dissolved (as SO_4)	MG/L	00946	154.	
X			X			X			X			Total Dissolved Solids (TDS)	PPM	70300	587.	
												Total Organic Carbon (TOC)	PPM	00680		
												Total Organic Halogen (TOX)	UG/L	70353		
												Toxaphene	UG/L	39400		
												Turbidity	NTU	00076		
X			X			X			X			Zinc, Dissolved	UG/L	01090	20.	K
												2, 4–D, Total	UG/L	39370		
												2, 4, 5–TP, Total	UG/L	39045		
X			X			X			X			Phosphate	MG/L		0.21	
			X						X			Total Xylene	UG/L		5.	K

VALUE CODING RULES AND
REMARK CODES ON REVERSE

29 42 55 68 | 40 41 53 54 66 67 79 80

Form VWX-016
4/83

NEW [illegible] DEPARTMENT OF ENVIRONMENTAL PROT[illegible]ION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

MW-3

GROUND WATER ANALYSIS – VOLATILE ORGANICS REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME	SW ID NO.
Apex Facility	
LAB NAME Princeton Testing Labs	

NJPDES NO.: T (1) NJ 0 0 9 9 7 9 1 (2–8)
WELL PERMIT NO.: 24-2427 1-3 (9–16)
SAMPLE DATE YR. MO. DAY: 9 0 0 4 1 0 (17–22)
NJ LAB CERT. NO.: 1 1 1 1 8 (23–27)
WQM USE: (28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 01 / 88 (MO. YR.) TO 03 / 93 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
			X						X			Acrylonitrile	UG/L	34215	50.	K
			X						X			Benzene	UG/L	34030	5.	K
			X						X			Bromoform	UG/L	32104	5.	K
			X						X			Carbon Tetrachloride	UG/L	32102	2.2	K
			X						X			Chlorobenzene	UG/L	34301	5.	K
			X						X			Chlorodibromoethane	UG/L	34306	5.	K
			X						X			Chloroform	UG/L	32106	5.	K
			X						X			1, 1 - Dichloroethane	UG/L	34496	5.	K
			X						X			1, 2 - Dichloroethane	UG/L	34531	5.	K
			X						X			1, 1 - Dichloroethylene	UG/L	34501	5.	K
			X						X			1, 2 - Dichloropropane	UG/L	34541	5.	K
			X						X			Ethylbenzene	UG/L	34371	5.	K
			X						X			Methylene Chloride	UG/L	34423	5.	K
			X						X			1, 1, 2, 2 - Tetrachloroethane	UG/L	34516	5.	K
			X						X			Tetrachloroethylene	UG/L	34475	5.	K
			X						X			Toluene	UG/L	34012	5.	K
			X						X			1, 1, 1 - Trichloroethane	UG/L	34506	5.	K
			X						X			1, 1, 2 - Trichloroethane	UG/L	34511	5.	K
			X						X			Trichloroethylene	UG/L	39180	5.	K
			X						X			Vinyl Chloride	UG/L	39175	1.5	K
			X						X			Acrolein	UG/L	34210	50.	K
			X						X			Chloroethane	UG/L	34311	5.	K
			X						X			2 - Chloroethylvinyl Ether	UG/L	34576	5.	K
			X						X			Dichlorobromomethane	UG/L	32105	5.	K
			X						X			1, 3 - Dichloropropylene	UG/L	34699	5.	K
			X						X			Methyl Bromide	UG/L	34413	5.	K
			X						X			Methyl Chloride	UG/L	34418	5.	K
			X						X			1, 2 - trans - Dichloroethylene	UG/L	34546	5.	K
			X						X			1, 2 Dichlorobenzene	UG/L	34536	5.	K
			X						X			1, 3 Dichlorobenzene	UG/L	34566	5.	K
			X						X			1, 4 Dichlorobenzene	UG/L	34571	5.	K

VALUE CODING RULES AND
REMARK CODES ON REVERSE

Form VWX-015 A
4/83

NEW J ..E. DEPARTMENT OF ENVIRONMENTAL PRO.. ..
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

MW-4

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME	SW ID NO.
Apex Facility	
LAB NAME: Cooperative Ventures, INC.	

R (1) | NJPDES NO. NJ 0 0 9 9 7 9 1 (2–8) | WELL PERMIT NO. 24-2427 0-5 (9–16) | SAMPLE DATE YR. 90 MO. 04 DAY 10 (17–22) | NJ LAB CERT. NO. 77505 (23–27) | WQM USE (28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 04 88 (MO. YR.) TO 03 93 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
X			X			X			X			Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01		342.24	
X			X			X			X			Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01		340.70	
X			X			X			X			Depth to water table from top of casing prior to sampling with cap off	feet: to nearest .01	82546	37.42	
X			X			X			X			Depth to water table from original ground level prior to sampling	feet: to nearest .01	72019	35.88	
X			X			X			X			Arsenic, Dissolved	UG/L as As	01000	5.	K
X			X			X			X			Barium, Dissolved	UG/L as Ba	01005	200.	K
												Biochemical Oxygen Demand - 5 Day	MG/L	00310		
X			X			X			X			Cadmium, Dissolved	UG/L as Cd	01025	5.	
X			X			X			X			Chloride, Dissolved	UG/L as Cl	82295	90000.	
X			X			X			X			Chromium, Dissolved	UG/L as Cr	01030	50.	K
												Chromium, Dissolved, Hexavalent	UG/L as Cr	01220		
												Chemical Oxygen Demand (COD), Dissolved	MG/L	00341		
												Coliform Group	N/100 ML	74056		
												Color	Pt - Co	00080		
X			X			X			X			Copper, Dissolved	UG/L as Cu	01040	20.	K
X			X			X			X			Cyanide, Total	MG/L as CN	00720	0.01	K
												Endrin, Total	UG/L	39390		
X			X			X			X			Fluoride, Dissolved	MG/L as F	00950	0.20	K
												Gross Alpha, Dissolved	Pc/L	01503		
												Gross Beta, Dissolved	Pc/L	03503		
												Hardness, Total as $CaCO_3$	MG/L	00900		
X			X			X			X			Iron, Dissolved	UG/L as Fe	01046	50.	K
X			X			X			X			Lead, Dissolved	UG/L as Pb	01049	5.	K
												Lindane, Total	UG/L	39782		
X			X			X			X			Manganese, Dissolved	UG/L	01056	20.	K
X			X			X			X			Mercury, Dissolved	UG/L	71890	0.5	K

VALUE CODING RULES AND
REMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
72 73 79 80

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

MW-4

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME	SW ID NO.
Apex Facility	
LAB NAME: Cooperative Ventures, Inc.	

NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
S NJ 0099791	24-24270-5	90 04 10	77505	
(1) (2–8)	(9–16)	(17–22)	(23–27)	(28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 04 88 (MO. YR.) TO 03 93 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
												Methoxychlor, Total	UG/L	39480		
												Methylene Blue Active Substances	MG/L	38260		
X			X			X			X			Nitrogen, Ammonia, Dissolved $NH_3 + NH_4$ as N	MG/L as N	00608	0.11	
X			X			X			X			Nitrogen, Nitrate, Dissolved	MG/L as N	00618	2.10	
												Odor	T.O.N.	00085		
X			X			X			X			pH	Standard Units	00400	7.39	
												Phenols, Total Recoverable	UG/L	32730		
												Radium 226, Dissolved	Pc/L	09503		
												Radium 228, Dissolved	Pc/L	81366		
X			X			X			X			Selenium, Dissolved	UG/L	01145	5.	K
X			X			X			X			Silver, Dissolved	UG/L	01075	20.	K
												Sodium, Dissolved	MG/L	00930		
X			X			X			X			Sulfate, Dissolved (as SO_4)	MG/L	00946	172.	
X			X			X			X			Total Dissolved Solids (TDS)	PPM	70300	709.	
												Total Organic Carbon (TOC)	PPM	00680		
												Total Organic Halogen (TOX)	UG/L	70353		
												Toxaphene	UG/L	39400		
												Turbidity	NTU	00076		
X			X			X			X			Zinc, Dissolved	UG/L	01090	20.	K
												2, 4–D, Total	UG/L	39370		
												2, 4, 5–TP, Total	UG/L	39045		
X			X			X			X			Phosphate	MG/L		0.11	
			X						X			Total Xylene	UG/L		5.	K

VALUE CODING RULES AND
REMARK CODES ON REVERSE

29 42 55 68 | 40 41 53 54 66 67 79 80

Form VWX-016
4/83

NEW Y DEPARTMENT OF ENVIRONMENTAL PROT ON
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

MW-4

GROUND WATER ANALYSIS – VOLATILE ORGANICS REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME	SW ID NO.
Apex Facility	
LAB NAME: Princeton Testing Labs	

T (1) | NJPDES NO. (2–8): NJ 0099791 | WELL PERMIT NO. (9–16): 24-24270-5 | SAMPLE DATE YR. MO. DAY (17–22): 900410 | NJ LAB CERT. NO. (23–27): 11118 | WQM USE (28):

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 01/88 (MO. YR.) TO 03/93 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS: Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
			X						X			Acrylonitrile	UG/L	34215	50.	K
			X						X			Benzene	UG/L	34030	5.	K
			X						X			Bromoform	UG/L	32104	5.	K
			X						X			Carbon Tetrachloride	UG/L	32102	2.2	K
			X						X			Chlorobenzene	UG/L	34301	5.	K
			X						X			Chlorodibromoethane	UG/L	34306	5.	K
			X						X			Chloroform	UG/L	32106	5.	K
			X						X			1, 1 - Dichloroethane	UG/L	34496	5.	K
			X						X			1, 2 - Dichloroethane	UG/L	34531	5.	K
			X						X			1, 1 - Dichloroethylene	UG/L	34501	5.	K
			X						X			1, 2 - Dichloropropane	UG/L	34541	5.	K
			X						X			Ethylbenzene	UG/L	34371	5.	K
			X						X			Methylene Chloride	UG/L	34423	5.	K
			X						X			1, 1, 2, 2 - Tetrachloroethane	UG/L	34516	5.	K
			X						X			Tetrachloroethylene	UG/L	34475	5.	K
			X						X			Toluene	UG/L	34012	5.	K
			X						X			1, 1, 1 - Trichloroethane	UG/L	34506	5.	K
			X						X			1, 1, 2 - Trichloroethane	UG/L	34511	5.	K
			X						X			Trichloroethylene	UG/L	39180	5.	K
			X						X			Vinyl Chloride	UG/L	39175	1.5	K
			X						X			Acrolein	UG/L	34210	50.	K
			X						X			Chloroethane	UG/L	34311	5.	K
			X						X			2 - Chloroethylvinyl Ether	UG/L	34576	5.	K
			X						X			Dichlorobromomethane	UG/L	32105	5.	K
			X						X			1, 3 - Dichloropropylene	UG/L	34699	5.	K
			X						X			Methyl Bromide	UG/L	34413	5.	K
			X						X			Methyl Chloride	UG/L	34418	5.	K
			X						X			1, 2 - trans - Dichloroethylene	UG/L	34546	5.	K
			X						X			1, 2 Dichlorobenzene	UG/L	34536	5.	K
			X						X			1, 3 Dichlorobenzene	UG/L	34566	5.	K
			X						X			1, 4 Dichlorobenzene	UG/L	34571	5.	K

VALUE CODING RULES AND
REMARK CODES ON REVERSE

29 42 55 68 | 33 34 46 47 59 60 72 73 | 61

MICHAEL

ERES EASTERN REMEDIAL
ENVIRONMENTAL SERVICES, INC

1150 NEWTON STREET
NORTH BRUNSWICK, NEW JERSEY 08902
(201) 247-6333
FAX: (201) 247-0625

June 12, 1990

Mr. Stephen W. Johnson, Chief
Bureau of Ground Water Discharge Control
NJDEP Division of Water Resources
CN029
Trenton, NJ 08625-0029

SUBJECT: Apex Facility, Edison Road, Franklin Township
NJPDES Permit No. NJ0099791
Amendment to Sampling Plan

Dear Mr. Johnson;

Eastern Remedial Environmental Services (ERES) has received your Sampling Plan acceptance letter for the subject project. The letter listed six (6) items to be included in the Sampling Plan prior to its implementation at the site. The following information is provided as an addendum to the Sampling Plan and is listed in the same order as your letter:

(1) Two (2) additional soil samples have been included in the sampling scheme. The locations of these sampling points are included on the attached Facility Layout/Sample Location Map. The additional samples will be analyzed for all parameters listed in the Soil Sample Summary Table.

(2) A field investigation was conducted at the Apex facility and the concrete plant ruins prior to completion of the Sampling Plan. The purpose of this investigation was to determine all locations that appeared to be "points of discharge" or locations where water ponded prior to infiltration. The inspection was scheduled for a day which followed several days of heavy precipitation. The entire length of the trench was inspected as well as the concrete plant ruins and the stone towers. It appeared that any flow from the upgradient direction infiltrated along the length of the trench and did not flow along the surface beyond the trench. The trench was not connected to the concrete ruins or the 30' stone structures and surface discharge did not flow to these structures.

(3) A contingency sample is planned should sludge be encountered at the proposed sampling location. An alternate sample location would be chosen as close to the original sample as possible while taking into account worker safety in the trench.

(4) The following methods will be used by the laboratory when performing analysis on the soil samples from the Apex facility:

Analysis	Method SW846
Total Zinc	7950
Total Lead	7421
Total Nickel	7520
Total Chromium	7191
Total Cadmium	7131

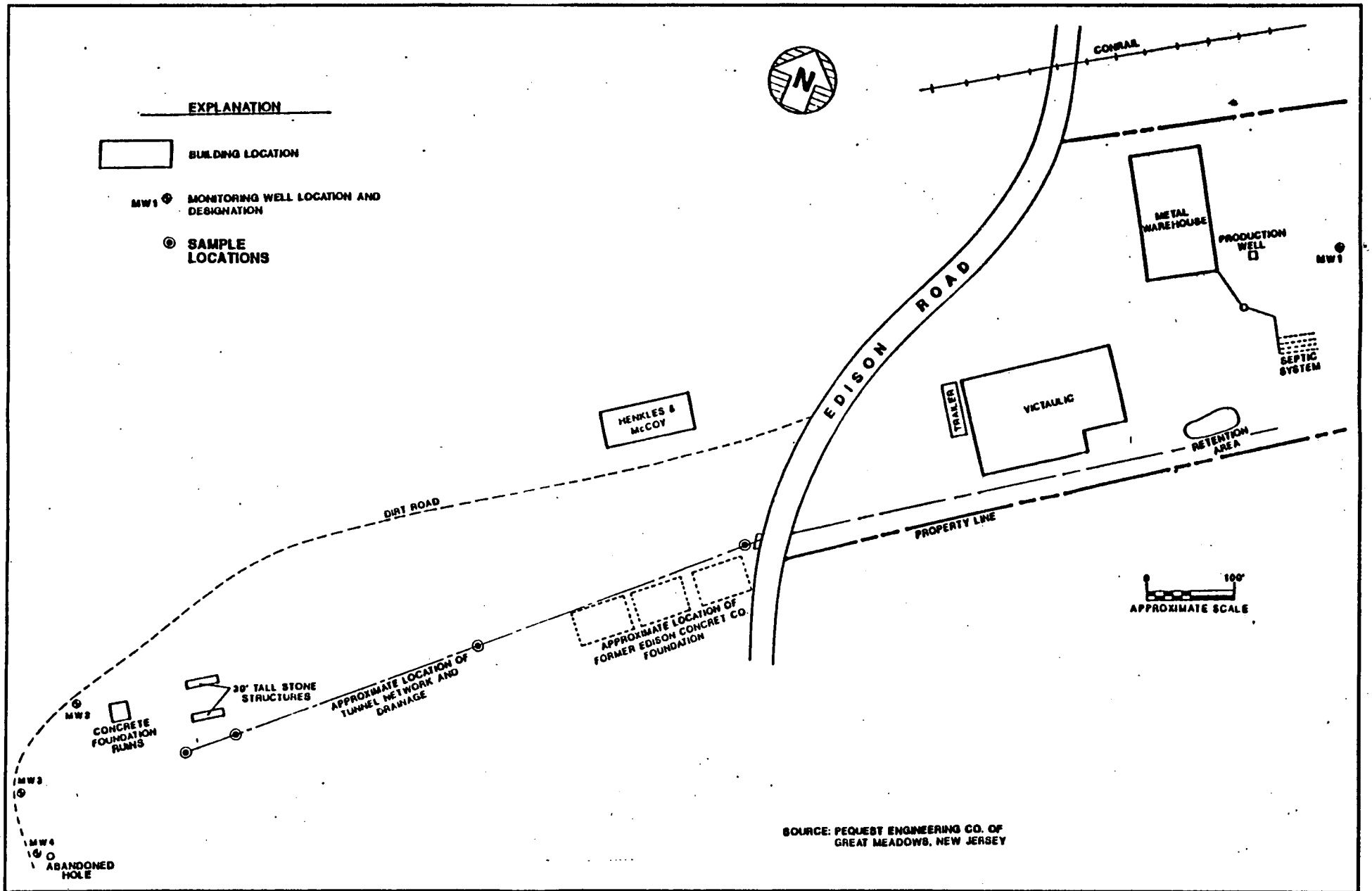
(5) All sampling at the Apex Facility will be done according to the NJDEP Hazardous Waste Programs Field Procedures Manual.

(6) In accordance with Item 6, iron has been removed from the list of analysis parameters and nickel has been substituted.

Weather permitting, ERES plans to collect samples at the Apex facility on June 20 or 21, 1990. Based on a standard turnaround, laboratory results should be available four (4) weeks after collection. Please contact me if you have any further questions regarding this Sampling Plan Addendum. I can be reached at (201)247-6333.

Very truly yours,

Lorrie Ruh Hanson
Project Manager



ERES

EASTERN REMEDIAL ENVIRONMENTAL SERVICES, INC.
VICTAULIC COMPANY OF AMERICA
FACILITY LAYOUT/SAMPLE LOCATIONS

Let's protect our earth

State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF WATER RESOURCES
NORTHERN BUREAU OF REGIONAL ENFORCEMENT
1259 ROUTE 46, BUILDING 2
PARSIPPANY, NEW JERSEY 07054

GEORGE G. McCANN, P.E.
DIRECTOR

DIRK C. HOFMAN, P.E.
DEPUTY DIRECTOR

JUL 13 1989

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Victaulic Company of America
Box 31, 4901 Kesserville Road
Easton, Pennsylvania 18042

Dear Permittee:

Re: Compliance Evaluation Inspection
Victaulic Company of America-Apex Facility
NJPDES No.: NJ0099791
Class: MIN-IND/DGW
Munic/County: Franklin Township, Warren County

A Compliance Evaluation Inspection of your facility was conducted by a representative of this Division on May 24, 1989. A copy of the completed inspection report form is enclosed for your information.

Your facility received a rating of "UNACCEPTABLE" due to the following deficiency:

Industrial Facility Wastewater Reports for discharge serial numbers I01 and I02 are not available on-site for review. Therefore, Victaulic Company of America is to submit to this writer copies of the Industrial Facility Wastewater Reports and corresponding laboratory analyses to date and all subsequent reports and analysis.

NOTE: Victaulic Company of America is scheduled for first round of sampling of four ground water monitoring wells in July 1989. This Bureau is requesting that a copy of the ground water analyses be provided to this writer when it becomes available to Victaulic

Since the deficiency cited is presently, or may in the future, adversely affect effluent quality, you are DIRECTED to institute measures to correct the deficiency. A written report concerning specific details of remedial measures to be instituted, as well as an

implementation timetable, must be submitted to this Department and USEPA, Permits Administration Branch, within thirty (30) calendar days of the date of this correspondence.

Both the New Jersey Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and the Federal Water Pollution Control Act, as amended (33 U.S.C. 466 et seq.) provide for substantial monetary and criminal penalties in cases of permit violations.

Please direct all correspondence and inquiries to Charles Ziegmont, of my staff, who can be reached at (201) 299-7592 or by letter through this Division.

Failure to fully comply with the above will result in the initiation of enforcement action by this Department and/or the U.S. Environmental Protection Agency. This shall in no way be construed, however, to indicate any exemption on your part from possible penalties for violations indicated by the Compliance Evaluation Inspection, as stated above.

Very truly yours,

Mary E F Fletcher

Mary E. Fletcher, Supervisor
Ground Water Discharge Enforcement
Northern Bureau of Regional
Enforcement

A18:dc

Enclosure

c: Chief Joseph M. Mikulka, Northern Bureau of Regional Enforcement
Ronald Eroh, Victaulic Company of America-Apex Facility
Betsy Hines, Warren County Health Department

bc: Charles Ziegmont
Mary Fletcher
Mike Infanger, Bureau of Ground Water Discharge Control
Bureau File THRU M. Fletcher
Central File/NJPDES: NJ0099791
Enforcement Actions (Virginia Kennedy)

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
CN 029, Trenton, N.J. 08625

DISCHARGE SURVEILLANCE REPORT

PERMIT # NJ0099791 NO. OF DISCHARGES _____ CLASS MIN-IND/DGW

DISCHARGER Victaulic Co. of American - Apex Facility

OWNER Victaulic Co. (Facility Owner) and Franklin Ind. Pk (Prop Own

MUNICIPALITY Franklin Twp. COUNTY Warren WATERSHED CODE NA

LOCATION Edison Rd. (Lot 12, Block 41)

RECEIVING WATERS Ground water STREAM CLASS NA

LICENSED OPERATOR & PLANT CLASS NONE REQUIRED

TRAINEE/ASSISTANT _____ OTHER INFO. 201 859-0085

DEFICIENCIES OR COMMENTS ① No records available on site for review.

Four ground water monitoring wells are required but have not been installed as of date of inspection. However subsequent to this inspection the Bureau of Ground Water Discharge Control were notified that the MW's were installed and due to be sampled in July '89.

OVERALL RATING ☐ Acceptable ☐ Conditionally Acceptable ☒ Unacceptable

EVALUATOR Charles Ziegmont TITLE Environmental Specialist

INFORMATION FURNISHED BY (Name) Ben Eroh

(Title) Plant Manager (Organization) Victaulic

DATE OF INSPECTION 5/24/89

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
CN 029, Trenton, N.J. 08625

Permit # NJ0099791

DISCHARGE SURVEILLANCE REPORT

Date 5/24/89

GROUND WATER DISCHARGE EVALUATION

RATING CODES: S = Satisfactory M = Marginal U = Unsatisfactory NA = Not Applicable

		RATING	COMMENTS
GENERAL	TYPE DGW	—	Infiltration Percolation Lagoon + Post Pretreat
	RCRA FACILITY	NA	
	DISCHARGE NUMBER	—	IO1 (Stormwater) IO2 (Wastewater)
	WASTEWATER SOURCE/FREQ.	—	All wastewater from facility plating system is recycled
	PUMPS AND PIPING	S	IP2 received past discharge + present stormwater. Also
	ALTERNATE POWER/ALARM	S	past discharge of wastewater to basement of abandon
	BYPASS	NA	
MONITORING SYSTEM	WATER SUPPLY/MONITORING	NA	2 production wells on site
	AQUIFERS MONITORED	—	Undifferentiated Kittatinny Group of Cambro-Glauc. aq
	UPGRADIENT WELLS		4 wells required at site. Have not yet
	DOWNGRADIENT WELLS		been installed as of date of inspection.
	SAMPLING PLAN	—	Qtly for wells semiannually for IO1
	SAMPLING PROCEDURES	NI	
	LAB CERTIFICATION	NI	
	RECORDS	U	No sampling records of IO1 or IO2
	REPORTING	NI	available on site for review
LYSIMETER/ MONITORED WELLS	DRILLING PERMIT NUMBERS	NA	4 wells required not installed to date
	WELLS NUMBERED/IDENTIFIED		
	LOCKS/INTEGRITY		
	ABANDONMENT PLAN		
	ELEVATION INFORMATION		
	WATER LEVEL MEASUREMENT		
	TURBIDITY FREE		
	SUFFICIENT YIELD		
UIC	CLASSIFICATION	NA	
	PERC./LEACHING PROBLEMS		
	SOLVENTS/REPAIRS MADE		
	MAX. PRESSURE & VOLUME		
	CLOSEST USDW/SUPPLY WELLS		
	MOUND INTEGRITY/COVER		
IMPOUNDMENT	LINING INTEGRITY	NA	Unlined
	EMBANKMENT INTEGRITY	S	
	LEACHATE COLLECTION SYS.	NA	
	SOLIDS BUILDUP/REMOVAL	NA	
	HEIGHT TO FREEBOARD	M	2-3 inches
	APPEARANCE	S	
LAND APPLICATION/ SPRAY SYSTEM	EVEN DISTRIBUTION	NA	
	PONDING/RUNOFF/EROSION		
	SPRAY HEADS		
	DISCING		
	COVER CROP		
	APPEARANCE		
	BUFFER ZONE		
	SLUDGE STOCKPILED		
OTHER	SEEPAGE/LEACHING	NA	
	ODOR/AEROSOLS		
	FLOW MONITORING/RECORDING		

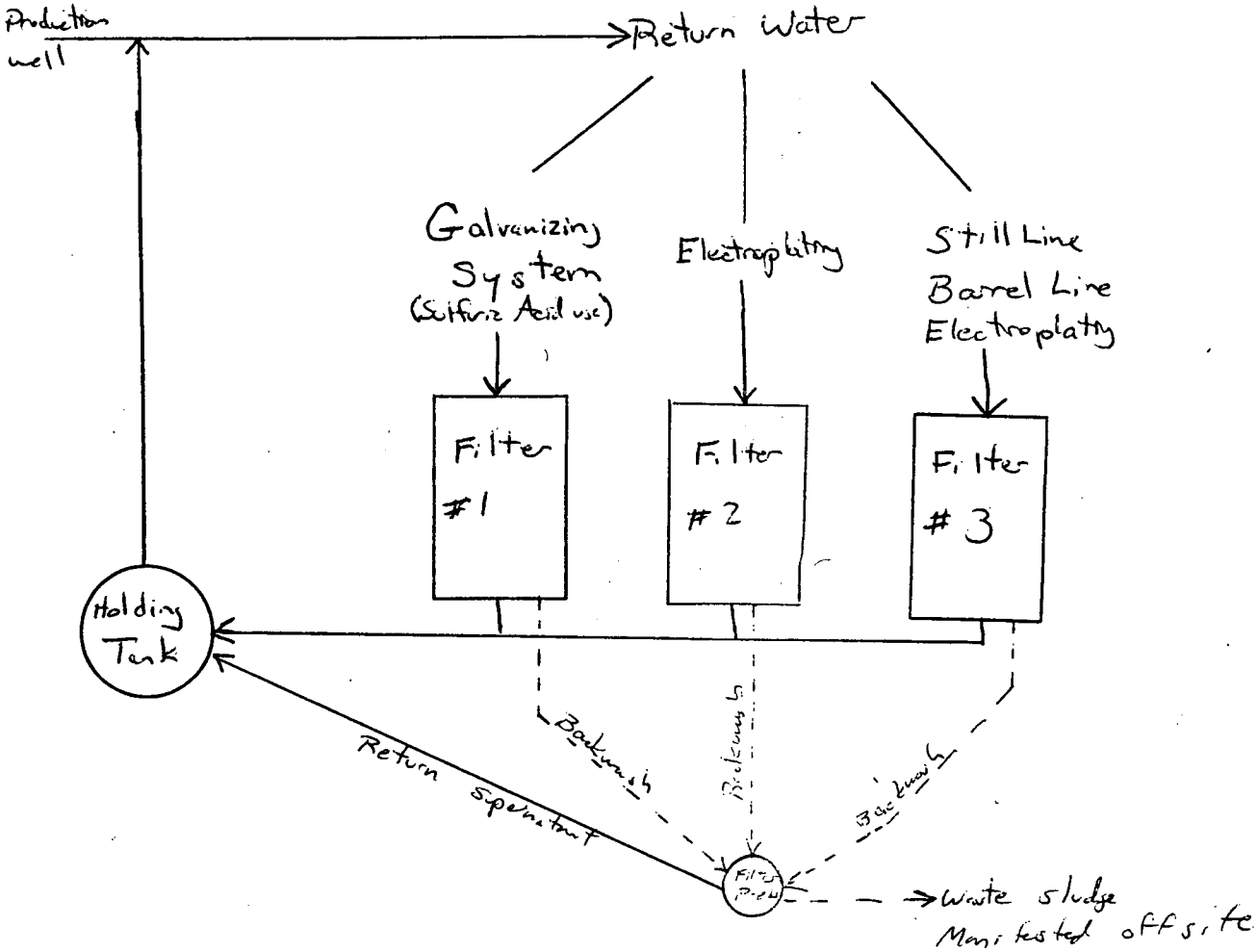
Form DWR-053
3/81

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
CN 029, Trenton, N.J. 08625

DISCHARGE SURVEILLANCE REPORT

Permit # NJ0099791
Date 5/24/84

PLANT DIAGRAM AND FLOW SEQUENCE:



DISCHARGE DATA

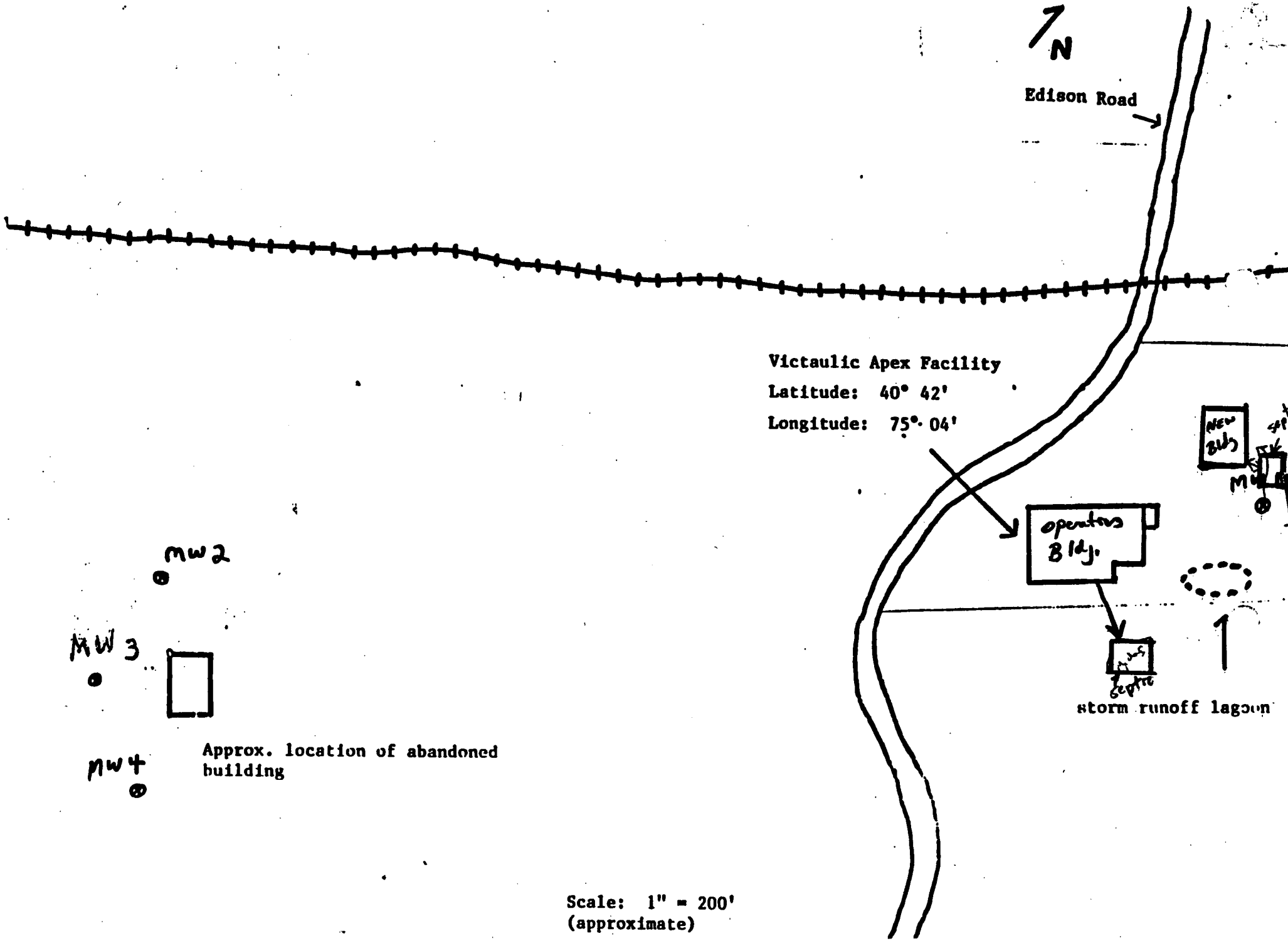
No records on site for review

SOURCE: _____ PERIOD: _____

DIS	PARA	SAMPLE TYPE	PERMIT LIMITS	DATA	DIS	PARA	SAMPLE TYPE	PERMIT LIMITS	DATA

MONITORING DEFICIENCIES: _____

Attachment 2



Scale: 1" = 200'
(approximate)

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. *(Extra charge)*
2. ☐ Restricted Delivery *(Extra charge)*

3. Article Addressed to:

Mr. Carl Brown
Vitaulic Corporation of America
P.O. Box 107
Stewartsville, New Jersey 08806

4. Article Number
P 545 548 441

Type of Service:
- ☐ Registered
- ☐ Certified
- ☐ Express Mail
- ☐ Insured
- ☐ COD
- ☐ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Address
X Ronald G. Frok

6. Signature — Agent
X

7. Date of Delivery
4/5/89

8. Addressee's Address *(ONLY if requested and fee paid)*

PS Form **3811**, Mar. 1988 * U.S.G.P.O. 1988-212-865 **DOMESTIC RETURN RECEIPT**

MAILING ?
NOT DOCUMENTED .

4/5/89

1002413